THE HORN SPEAKER

The newspaper for the hobbyist of vintage sound and electronics

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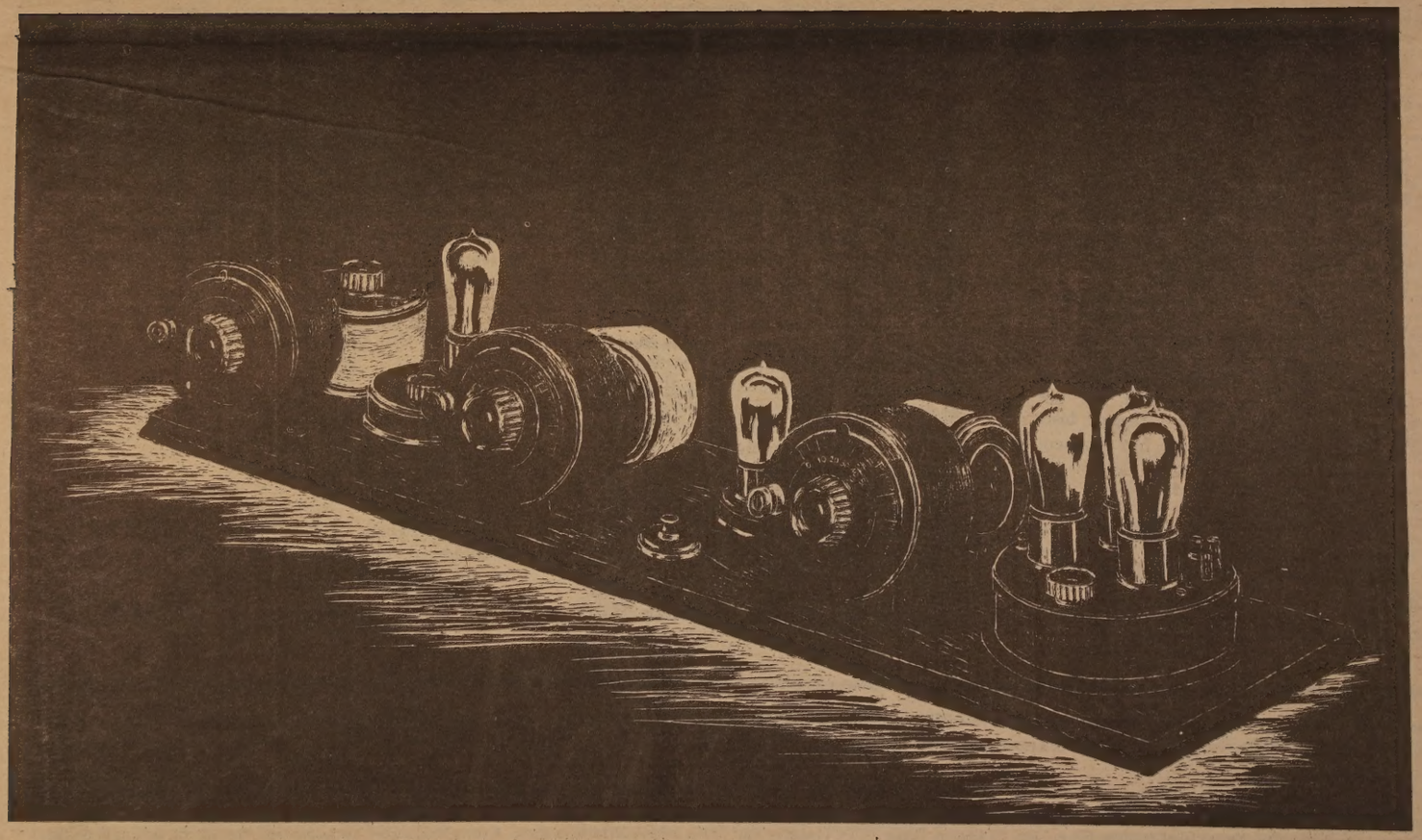
Happy Holidays to all the readers of *The Horn Speaker*

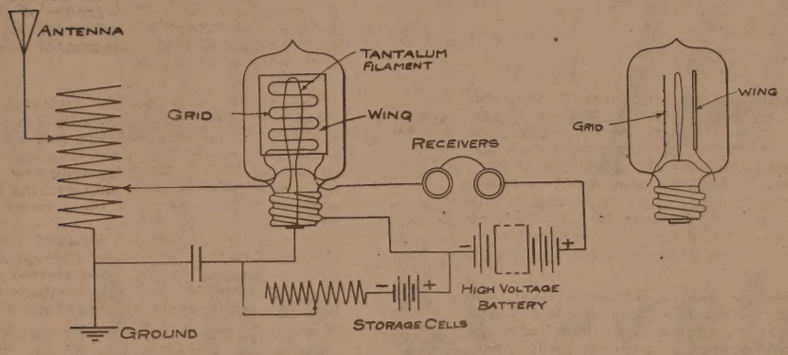
Jim



Atwater Kent, model 10 "breadboard" radio of the middle twenties

The Audion; A Third Form of the Gas Detector

By John L. Hogan, Jr.



M.E.

Two methods by which a sensitive column of conducting gas may be used as an oscillation responder have been considered in the Flame and in the direct current Arc*.

It has been found that the gas column is a most delicate medium upon which to build the trigger action of a responsive device. But it has also been found that the conducting gas flame and the arc are unsteady—that their very sensitiveness operates against their practical efficiency because they respond emphatically not only to Hertzian waves, but to *air currents*. This of course makes them useless for commercial wireless.

The extreme delicacy of the gas detector of course renders it sensitive not only to complete starts and stoppages of received electric waves (as in wireless telegraphy), but also to slight *variations* in them. Therefore the apparatus may be believed highly suitable for aerophony, if it could be caused to respond to Hertz waves only, and kept from hissing and rattling in the telephones at every gust of wind.

It was found, over twenty-five years ago in Germay, that if a metallic plate and a filament were sealed side by side in an evacuated globe, a current could be passed from the filament to the plate while the filament was lighted, but not otherwise. After a long series of tests it was discovered that the hot filament emitted a flow of ions which carried the current from filament to plate. This flow is exactly analogous to that in the gas flame and in the arc, but for a long time it was not considered that it could be used as a nearly ideal wave detector.

After several notable steps of development by different workers, the device now known as the Audion was produced. This has been modified and so changed in the course of its growth that there are now some six or more distinct varieties. In all these the operating principle is the shattering of a column of conducting gas by a received electrical impulse. But, unlike the flame and arc detectors, the gas column is protected from air currents by the globe of the Audion-lamp, so it is evident that the great difficulty mentioned above has been eliminated.

The most sensitive type so far designed is called the Grid Audion. This is usually a six-volt low candle-power incandescent lamp with a tantalum filament, having a small platinum plate (about 10x15 millimeters) fastened approximately three millimeters from the filament, and a "grid" bent from rather large (say number twenty-two) platinum wire placed nearly midway between the two. The filament is lighted by three small storage cells, whose output is varied by a rheostat having continuous smooth adjustment. From the positive terminal of this storage battery a wire is led to the adjustable high voltage battery of the telephone circuit, as shown in the diagram. The two leads from the tuning apparatus are respectively connected to the grid and to the negative side of the storage cells.

It has been definitely stated that the Audion is a potential operated device. But on the same authority it is said that the Audion is dependent for its response upon the total energy received, so the class to which the apparatus really belongs is somewhat hazy.

Modern Electrics, October 1908

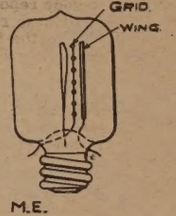
It is undoubtedly true that the Audion, when in its best condition, is highly sensitive and that it is therefore well suited to aerophony. But unfortunately the sensitive condition is extremely difficult to find and still more difficult to maintain. Some Audion-tubes show an extraordinary sensitiveness at first, but quickly grow dull when in use. Other lamps are nearly worthless from the beginning, and none remain sensitive very long.

The Audion is capable of being developed into a really efficient detector, but in its present forms is quite unreliable and entirely too complex to be properly handled by the usual wireless operator. The principles involved are of the utmost importance, but their application is crude and irregular.

The Audion offers another fascinating field for investigation and improvement, and it is to be hoped that it will be taken up and the work so well begun carried to a satisfactory conclusion. For aerophony a detector is needed which will reproduce with fidelity the higher harmonics of the voice. The Audion, when carefully handled, is such a detector, but the best adjustment is so very critical that the manufacturers of aerophonic apparatus have found that almost no demand for the tubes exists, and are therefore supplying crystalline thermo-electric detectors with their outfits. This fact, together with the unsatisfactory resuls of tests made by the Government and by one of the foremost wireless companies in America, would seem to indicate that as yet the device is not to be absolutely depended upon and is therefore not to be used in the serious undertakings of aerophonic communication.

AUDION.

We hasten to correct two mistakes made in Mr. J. L. Hogan's article of the "audion" in the October issue. Our artist when showing a side view of the instrument made a slight mistake. The grid should be placed *between* the filament and wing as per our illustration herewith.



M.E.

The last words of Mr. Hogan's article should read thus: "In the serious undertakings of radio-communication."

Modern Electrics, November 1908

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Romance of Radio 1914 to 1949

By W. FRANKLIN COOK
Chief Editor, NRI Instruction Material

1914 These were the "good old days"—when Radio was referred to as "wireless" most of the time—when only the stout-hearted dared walk into the room of a Radio fan and risk jarring the "cat's-whisker" off the long-sought-for sensitive spot on the galena crystal—when tubes were so microphonic that a heavy footstep anywhere in a house sounded like thunder in the phones—when practically all broadcasts were in code, and many a tense midnight listener mistook static for voices from the moon or Mars. "Bloopers," those unforgettable regenerative receivers developed by De Forest in 1912 and Armstrong in 1914, were just becoming known among experimenters; these sets acted like miniature transmitters during the tuning process, causing howls in neighboring receivers for blocks around. Loudspeakers existed only in the dreams of inventors; listening was done with headphones, and crushed and aching ears were the reward for perseverance.

The two-element rectifier tube had been invented by Fleming in 1906, and De Forest had added a grid to this tube in 1909. Pickard had perfected the crystal detector in 1907, and it was for many years the most popular of all detectors. Of course, Marconi had in 1901 amazed the world by broadcasting the letter "S" from Poldhu, England, to Saint Johns, Newfoundland. Our own NAA in Arlington, Virginia, went on the air in 1913 with a 100 kw. spark transmitter operating on 6,000 meters. About this same time Nauen, Germany, began broadcasting on 16,900 meters or about 18,000 cycles (just above the audio band), and station FL atop the Eiffel Tower in Paris began broadcasting on 10,000 meters. Many an old-timer still remembers tuning in these stations with a crystal set having huge tuning coils and an aerial hundreds of feet long. The Titanic had crashed into an iceberg in 1912, with Radio summoning assistance and bringing news of the disaster to a young wireless operator named David Sarnoff (now President of RCA) who was listening in a New York City skyscraper.

It was in 1914 that Hiram Percy Maxim founded the American Radio Relay League. War broke out in Europe this year, and amateur licenses were suspended in practically all foreign countries. American amateurs listened with suspicion to German Radio stations in this country and found at least one to be sending code reports on allied shipping to German submarines; recordings of the messages, turned over to the Secret Service, resulted in confiscation of this Telefunken station.

Broadcasting of entertainment—even of grand opera with Caruso singing—was now several years old, with the De Forest Radio Telephone Company starting things off with phonograph records in 1907. Only a handful of experimenters heard these first "canned" programs, and these were more interested in DX (distant) code reception than in the highly distorted and almost unrecognizable music. Few people even dreamed of the vast entertainment possibilities of Radio during these days, and James E. Smith founded the National Radio Institute in this year primarily to train men for careers as wireless operators on land and sea.

1915 Human voices leaped across the Atlantic for the first time in history; this radio-telephone conversation between radio operators at Arlington, Virginia, and the Eiffel Tower in Paris was also heard by listeners in Honolulu. More and more ships were being equipped with wireless, creating a demand for trained wireless operators. The ability of Radio to save lives at sea in time of disaster was demonstrated forcibly again and again.

1916 America was doing its best to keep out of the great conflict in Europe despite the sinking of the Lusitania by a German submarine in 1915. Wireless was adopted by the New York Police Department as a means of combatting crime. Across the seas, wireless telegraphy was made compulsory this year on all British vessels over 3,000 tons. Naval vessels of all countries were rapidly being equipped with wireless transmitters and receivers.

1917 America entered the World War. All amateur Radio enthusiasts pulled down their antennas and packed away their Radio apparatus in observance of a Government order. Many answered the Navy's call for volunteer wireless operators, and by the end of the war, over 3,500 American Radio Relay League members were in service as operators and Radio technicians. All activity in Radio during the war was concentrated in the various divisions of the Government and among Radio manufacturers who were making equipment for the Government.

1918 Radio played an important part in the activities of the U. S. Signal Corps in France, as well as in maneuvers of the U. S. Navy. Radio principles were applied to submarine-detecting apparatus for the first time. Radio technicians became an established unit of U. S. armed forces, doing all repair work on Radio apparatus. Tube manufacturers were making special hard (high-vacuum) tubes for the Navy, and somehow these tubes got out to the public shortly after the end of the war. Their superior performance doomed the former gaseous or "soft" tubes as amplifiers, although the soft detector was to reign supreme for some years to come.

1919 The war was over! All bans on Radio were removed and amateur Radio was re-established as a hobby. Spark transmitters were being junked in favor of vacuum tube oscillators, and more and more hams gave up C. W. for phone operation. Scores of commercial wireless stations were built in this country; most of them used the famous Alexanderson alternator, which was simply a huge A.C. generator capable of producing A.C. powers up to 300 kw. at frequencies over 100 kc. These alternators fed power directly to the transmitting antenna.

It was during this year also that Dr. Frank Conrad of Westinghouse broadcast phonograph records over a home-made transmitter in his garage in Pittsburgh, getting an avalanche of fan mail and requests for favorite recordings. Westinghouse officials were amazed at this interest in Radio.

1920 Westinghouse built its first transmitter in a little shack atop its nine-story factory in Pittsburgh. This station, eventually assigned the famous call letters KDKA, amazed the world with a broadcast of presidential election returns on November 2, 1920, followed by a report of Harding's election. Some two thousand newspapers began printing KDKA programs regularly; Radio was being acclaimed everywhere as the newest form of entertainment for the home, and receiver sales skyrocketed upward. Navy multi-range receivers left over from the World War were being sold to the public at this time, as also were receivers using honeycomb coils. "C" batteries made their appearance, pleasing the public because they cut down plate current and made "B" batteries last longer. Receiving tubes were hard to get, and cost anywhere from $6 up. Radio experimenters spent about $2,000,000 this year, not for complete sets but rather for parts with which to build their own crystal sets, small vacuum tube receivers, and transmitters. The first Armstrong superheterodyne circuit was announced, and amateurs immediately began experimenting with its circuit.

1921 Station WJZ at Newark went on the air and soon was broadcasting regular bedtime stories. The Dempsey-Carpentier prize fight broadcast made a hit; Radio had a sudden flurry of activity, with hardware, stationery, drug and even millinery stores selling commercial receivers or merchandising the handiwork of a mechanically-minded son or kid brother. Horns with places for attaching headphones were offered at $10 and up; glass and wooden bowls were also widely used to boost the sound output of headphones and permit groups of persons to listen to programs. Attachments for holding phone units against the tone arms of phonographs were being sold this year.

Broadcasting stations were springing up like toadstools; while there were only 5 in December of the previous year, 532 more had gone on the air by September, 1922. More than 20,000 dealers rushed madly into this entrancing new field, and thousands more started manufacturing Radio apparatus. The majority of these received badly burned fingers toward the close of this year, when intense competition knocked the bottom out of prices. In New York, Chicago and elsewhere, cut-price Radio centers started up, offering the stocks of financially embarrassed and bankrupt Radio manufacturers at mere fractions of the original prices.

1922 WGY and WEAF went on the air, with WEAF making history by offering its facilities to advertisers. Major Armstrong announced his super-regenerative loop receiver, a 3-tube circuit which amplified signals over 100,000 times with "nary a bloop or squeal." Magnavox came out with a deluxe electrodynamic horn type loudspeaker. The Hartley regenerative receiver circuit was popular with experimenters. Practically every high school student of the time had a crystal receiver and spent hours jiggling the little coil of wire called a "cat's-whisker," in order to get maximum power into the headphones. What a thrill it was in those days to clamp on the headphones, tune the receiver and scratch up the crystal for half an hour, then have the thrill of hearing a station 25 miles away!

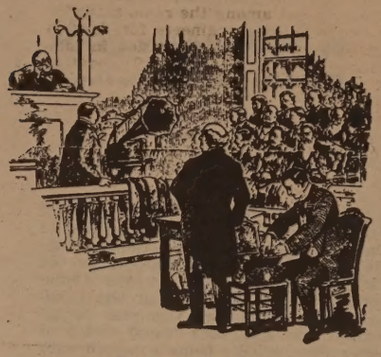
1923 Neutrodynes took the country by storm, and soon you were a social outcast if you didn't have one. These sets didn't squeal, and you could actually get a station twice in succession at the same dial setting—sometimes! President Harding had one of these receivers installed in the White House. Other popular receiver circuits included regeneratives and ultradynes; popular tubes were the 201A's, the 171A's and the UV199 "peanut" tubes. Vacuum tube receivers had replaced crystal sets, except possibly among the high school experimenters. Loudspeakers had come to stay. Set manufacturers prided themselves on the assortment of knobs and gadgets which decorated receiver panels, but already the public was calling for a single-knob control. Women resented the unsightly batteries, and inventors worked day and night to find some means of operating receivers from ordinary light socket power. Radio receivers became obsolete in from three to six months during these days, with even the larger companies selling surplus stocks at half-price and lower to clear the shelves for new models.

1924 President Coolidge's cat, presumably wandering in search of some errant love, was sought for and found by Radio, with newspapers making much of the story. Over 1,400 broadcasting stations were now pumping programs into the American ether; each station took any frequency it pleased in the band between 200 and 550 meters, since licenses did not specify any definite operating frequency. High-power transmitting tubes were not available, and the power radiated by each of these early stations was even less than that consumed by the average one-slice electric toaster. Daily broadcasts of Major League baseball games began this year, making a hit with fans.

The receivers being turned out by manufacturers were becoming more and more complex. By the thousands, an eager public snapped up superheterodynes, reflex sets, T.R.F. receivers and neutrodynes, and immediately there arose a need for skilled men to service these complex creations. Earlier receivers had been so simple that they seldom required servicing, and the real technical equipment in transmitters was being installed and maintained by trained factory experts, many of whom were NRI men. To meet the public demand for repairs on ailing receivers, Radio dealers began hiring men especially for

servicing work—and thus a new profession was born. Early servicemen sweated over burned-out A.F. transformers in the famous De Forest Model D-7 self-contained loop receiver, which with four tubes and a crystal detector in a reflex arrangement gave seven stages of amplification. In the equally famous RCA "portable" superheterodyne, the catacomb coils and the extremely fragile type 199 tubes were going bad and creating profitable service calls. Western Electric came out this year with a magnetic horn loudspeaker, and this was soon supplanted in popularity by magnetic cone loudspeakers, some more than three feet in diameter.

1925 Radio coils reached a peak in unique design; set builders had to choose from standard solenoid coils, pancake coils, spider-web coils wound on forms like the spokes of a wheel, honeycomb coils, toroidal or doughnut-shaped coils, binocular coils, bank-wound coils, random-wound coils and even figure-of-eight coils. Coil forms were often removed after the windings were cemented together with a coating of coil "dope," on the theory that this would reduce losses. The Raytheon cold-cathode gaseous type BH rectifier tube was perfected this year. Overproduction of receivers was a chronic complaint in the Radio industry, with hundreds of manufacturers plunging foolhardily into production schedules which inevitably resulted in bargain sales, receiverships and bankruptcies. Radio was now well established as a form of entertainment, and so intriguing was this entertainment to the public that each new improvement was received with open arms by all who could dig up the necessary money.



Before Long

(Phonograph gives evidence. Machine-made testimony admitted by Pittsburg Magistrate.—*Newspaper Headline.*)

COURT OFFICER (*in the near future*).—Do you solemnly swear that evidence which you give in this case will be the truth, the whole truth and nothing but the truth? So help you Edison.—*Puck.*

J. E. Smith assists the late Dr. C. Francis Jenkins, in early Television experiments.

1926 The first all-electric sets timidly made their appearance, mostly with T.R.F. circuits and separate power packs. The "tinker" type of serviceman, seeing the array of chokes, filter condensers and voltage dividers in the power pack, silently dropped out of the picture. "B" eliminators became popular, with the type 80 tube sharing honors with the Raytheon BH tube as the rectifier in these units. The famous Browning-Drake receiver circuit revived a dying interest in set-building. The purchaser of a complete new Radio installation still had to choose five separate items in most cases: *1.* A Radio receiver in a table model cabinet; *2.* A loudspeaker; *3.* A set of tubes; *4.* An "A," "B," and "C" battery eliminator pack; *5.* A suitable table or cabinet for the various units.

A U. S. Court decided that the Secretary of Commerce had no power to regulate broadcasting—only the power to issue licenses. This decision made Radio broadcasting even more chaotic than before; new stations merrily started up and increased power in tremendous jumps in order to drown out rival broadcasts. Whistles and heterodyne squeals were heard on almost every program. This year also marked the start of the National Broadcasting Company, the first network of stations.

In England the British Broadcasting Company was granted a Royal Charter. Its license to broadcast contained only one important restriction, namely, that no money could be accepted from outside interests; in other words, there was to be no commercial sponsorship of Radio programs. Broadcasting in England was to be paid for by the manufacturers of Radio equipment, by the Government, and by means of license fees collected from owners of receivers.

1927 Television was the big topic of discussion this year. Television receivers were being sold in kit form and as complete sets by Jenkins, Baird, Freed-Eisemann and several others. These sets used elaborate scanning discs and neon crater lamps, with the same scanning discs and photoelectric cells at the transmitters. Mechanical television systems reached the peak of their popularity this year, and even telephone television was tested out (with this set up, two persons could see as well as talk to each other even though separated by many miles, but the quality of the image was very poor).

A super-abundance of stations forced manufacturers to sacrifice tone quality and fidelity to sharp tuning in order that interfering stations could be tuned out. Sales of Radio receivers reached a new low; the public sat back, waiting, aware that perfected A.C. sets were just around the corner. The Federal Radio Commission was established by the Government to clear up the chaos among transmitters. The first act of this Commission was to revoke all broadcasting licenses; it then assigned channels and powers so that interference between stations was a minimum, and reduced the number of stations as well. The Columbia Broadcasting System was started. Single dial receivers became a reality, with the Kolster Six as one of the early leaders. The McCullough A.C. tube was announced.

1928 Attempts were made to bridge the Atlantic Ocean using mechanical television, but image quality was still poor and unsatisfactory either for commercial use or for entertainment. RCA put out the famous Radiola 17, an A.C.-operated receiver. Diode detectors began to receive consideration among set designers. Types 226 and 227 tubes with A.C. heaters were released by tube manufacturers and immediately snapped up by set manufacturers. The typical A.C. T.R.F. receiver of this day used type 226 tubes in the R.F. and A.F. voltage amplifier stages, a 227 tube as detector, a 71A tube in the output stage and an 80 in the power pack. A.C. screen grid tubes were announced the latter part of this year, with the 224 leading the list. Next came variable mu tubes and power pentodes.

1929 The Majestic receiver line, with several styles of console cabinets from which to choose, was the hit of the year. Majestic sets, with their characteristic deep bass response, met with instant popularity, and a few are still in use today. An estimated 110,000 people were employed in the Radio industry this year.

The Radio manufacturing industry underwent an inevitable upheaval this year. Important Radio patents had been scattered among many holders; patent rights were being openly violated and infringement suits were common. The Radio Corporation of America, organized shortly after the war in order to keep control of the Alexanderson alternator in this country, secured control of the important Radio patents, and granted licenses for these to other manufacturers, who could then build receivers without fear of litigation.

1930 The T.R.F. circuit still reigned supreme for this year and that to follow, even though many supers were being made. Interest rose in short-wave reception among the listening public; to meet this, manufacturers began putting out short-wave converters which changed an ordinary T.R.F. receiver to a short-wave superheterodyne. Plug-in coils for changing bands were replaced with band-changing switches about this time, but the average Radio set purchaser was content with broadcast band reception and scorned the complicated all-wave receivers. The National Carbon Company this year brought out a 2-volt air cell battery for farm Radios; this battery required no recharging and had a life of about one year as a filament supply for receivers using the new 2-volt tubes. Experimental television broadcasts with mechanical systems were begun by the British Broadcasting Company this year.

1931 RCA brought out the Radiola 80, one of the most famous of all Radio receivers; it was a 9-tube A.C. superheterodyne, and did more than anything else to start the super on its sudden climb to the throne as king of receiver circuits. The first midget receiver to attract widespread attention, the Jackson Bell set, came out this year; it heralded a flood of midget receivers which still continues today. This year just about marked the end of the set-building boom which had started back in 1922; receivers built at home from kits gave way to manufactured sets.

1932 Automatic volume control was introduced, to make single dial receiver control more nearly possible and make reception more enjoyable by compensating for fading. Manufacturers, seeking ways and means of overcoming the summer slump in the Radio business, began giving considerable attention to auto Radios. The auto sets sold this year required separate "B" batteries or a dynamotor, as well as a separate loudspeaker. Remote tuning controls were provided right from the start, however.

1933 Police Radio installations became an important factor in the war on crime, creating new jobs for Radio operators. Remote control tuning, with cables running from the control unit to the receiver, was featured by some manufacturers. Another feature of the year was the Philco inclined sounding board.

1934 All-wave receivers which actually brought in foreign short-wave stations were the hit of the year. Among broadcasters the big news was WLW's boost in power to half a million watts under an experimental license. It was this year, too, that Admiral Byrd isolated himself for several months in a cabin 123 miles south of Little America, with Radio as his only means of contact with his associates and the rest of the world.

1935 Interest in television was reborn with the announcement of the Zworykin iconoscope and the Farnsworth image dissector tube for cathode ray television. Sensation of the year was the introduction of metal tubes. Radio broadcasting stations alone had a payroll of $21,491,000 this year, and Radio technicians installed 1,100,000 auto Radios. All-wave antennas were developed for the new foreign-station receivers. All-wave signal generators and cathode ray oscilloscopes were also brought out by manufacturers, to assist servicemen in repairing the new sets.

1936 Automatic tuning was the big new feature in the receivers announced during the fall of this year; most of the early sets also had automatic frequency control. Approximately 8,000,000 receiving sets were sold this year. Philco made a few cathode ray television receivers for experimental purposes, and other laboratories worked feverishly on cathode ray television development. An estimated 3,000,000 automobiles were equipped with auto Radios at the beginning of this year, and three out of four families in this country had home Radios.

1937 Floods in the Ohio River Valley disrupted communications and made thousands homeless. Radio jumped into service; broadcast stations and amateurs joining together to re-establish communication with isolated communities. Portable and police radios were installed in boats, which were directed by radio in their rescue efforts. Hundreds of lives were saved by the unceasing day and night efforts of radio operators and announcers.

Events of the Presidential Inauguration were broadcast to the world over one of the largest radio hook ups in history, with a number of NRI men at the controls in Washington. Features of the new radios were cathode-ray tuning eyes, slide-rule tuning dials and sleekly veneered cabinets for consoles. A trend toward higher fidelity and more classical music resulted in the formation of the NBC Symphony Orchestra. RCA conducted extensive experiments with cathode ray television.

1938 Push-button tuning was now considered almost essential. High fidelity receivers made their appearance. Standards for television systems were approved by the Radio Manufacturers' Association, paving the way for the introduction of commercial television. Howard Hughes set a new record in flying around the world; contact with America by radio was maintained for the major portion of the flight, with Hughes broadcasting over a nation-wide hook-up while flying over Germany. Huge water-cooled 250,000-watt transmitter tubes, taller than a man, made news this year, along with midget or finger-size tubes for hearing aids.

1939 Electronic Television emerged from the laboratories. Important demonstrations at the New York World's Fair and the start of regular high-fidelity television broadcasts served to arouse the public's interest. Several manufacturers made a limited number of high-definition 441-line commercial television receivers. Time tuning and remote wireless controls were the two outstanding features of the year's new radio models. Radio cabinet designers matched accepted classic furniture styles with many console units. Automatic frequency controls were no longer required to correct for errors in push-button tuning systems, for the development of adjustable iron core coils and zero-temperature coefficient condensers made electrical tuning systems satisfactory. Improved mechanical push-button tuning systems were used in many midget sets. High fidelity cabinet arrangements such as the acoustic labyrinth became more prevalent among higher priced receivers. Wind chargers were available for farming communities and built-in loop aerials were brought back as a noise-reducing feature. Considerable interest was shown in facsimile broadcasting, and the frequency modulation system of Major Armstrong was announced. The start of the European war revived the public's interest in short-wave receivers with which to hear foreign broadcasts. It soon became evident that radio was to play an important part in this war as a means of communication between military units.

1940 To keep the public buying standard sets, many appeared with "television jacks" intended for the sound portion of television programs. Frequency modulation began to compete seriously for public interest as a high fidelity, noise-free means of transmission; commercial FM stations were permitted for the first time. Real portable receivers and extra small table models were widely sold. Tubes with 117-volt filaments made their appearance. A radio operated from a gas flame was demonstrated at the World's Fair. (The flame heated a thermocouple which produced sufficient power to operate the radio.) The war brought about a curtailment of amateur activities as communication with foreign countries was forbidden. Defense measures began to be taken, and many manufacturers began to convert to the manufacture of military equipment. The Selective Service Bill was signed and the draft started.

1941 So far the biggest year in radio history; 13,000,000 radio sets and 130,000,000 tubes were made this year. Radio models were frozen by agreement among the radio manufacturers, so as to release engineers for development of military equipment. Television in color was demonstrated and over $8,000,000 spent on television equipment and research. Commercial operation of television stations was permitted, with the acceptance of new standards. Frequency modulation began to spread rapidly with 30 commercial stations on the air. Hundreds of broadcast stations had their frequencies shifted and servicemen enjoyed a boom resetting push buttons. Interest in high-fidelity record-player combinations reached a high level.

Then, in December, came Pearl Harbor and the United States was again at war. All amateur operating activities stopped.

1942 The manufacture of all broadcast receivers was stopped and all receiver manufacturers changed over to defense activities. The manufacturers of war materials called for industrial control equipment and electronic engineers were in great demand. The better trained radio engineers and operators were snapped up in defense jobs or drafted, leaving a shortage of operators for broadcast and commercial stations. The Federal Communications Commission relaxed requirements for operating license classes for operating these stations. The manufacture of radio tubes was limited and many types were dropped altogether. The development of television was halted, but existing television facilities were used in training air raid and civilian defense personnel—the first example of mass education by television. Amateurs were permitted to join in civilian defense, forming communications networks for emergency purposes.

1943 Radio servicemen began to feel the pinch of the parts shortage. The draft was now taking large numbers of radio men, resulting in a business boom for those remaining. Remodeling receivers to get around shortages became fashionable. Electronic equipment of amazing types and quantities was made for the military forces. Equally amazing strides were made in electronic factory control equipment, designed to speed up production and deliver improved materials.

1944 Servicemen obtained some relief from the parts shortage as manufacturers were allowed to make some replacement parts. The emphasis was still on war needs, with no new radio receivers being manufactured. Even so, the United States had about 30,000,000 homes equipped with 57,000,000 radio sets.

1945 With the signing of the Japanese truce in September, 1945, the radio industry turned to the problem of supplying increasing public demands caused by acute deterioration of radio receivers during the lean war years. Production of long-needed a.m. receivers, even in the latter four months of the year after the lifting of War Production Board limitations, was quite slow because we still hadn't the necessary components for high rates of production. Industry was looking forward to frequency modulation and the Federal Communications Commission made definite frequency allocations in the 88 to 108 megacycle range, clearing, more or less, the stumbling block to the introduction of f.m. In general, with the war drawing to an end in 1945, it became a year for contemplative talk of what was going to be done to revolutionize public life through the great war-time inventions. Radar was to be a great motivating activity, so much so that it was jokingly said that even vacuum cleaners might be equipped with radar to stop the damaging of furniture legs.

1946 This was the year of great radio production. Roughly speaking, over fifteen million radio receivers were made and close to ten million of them were table models. About two million were battery receivers, a million and a half portable receivers, and about two million radio phonograph combinations. The demand was high, and since the price was also high, table model sales were in the front. At first, any make of receiver was accepted, but as the supply caught up with the demand, only the well known brands sold. A start was made in the frequency modulation receivers. Of the grand total of fifteen million only half a million frequency-modulated sets were made during this year. Of particular importance was the emerging of the universal a.c.-d.c. receiver using new miniature tubes that would lend compactness to the receiver. Selenium rectifiers, a war-time development, gradually came into some use as a replacement for the vacuum-tube rectifier in the small receiver.

In the broadcasting field there was a gradual increase in the number of a.m. broadcasting transmitters going on the air. F.M. stations were increasing in number. There were also a few television transmitters on the air and a number of T.V. construction permits. War-time developments began to appear in the transmitters but the so-called "miracle developments" did not appear in the radio receivers.

1947 During this year the number of radio receivers produced was again close to fifteen million, of which eight hundred thousand were f.m. receivers. Again the table model receiver was the best seller. Compactness was realized by using minature tubes and resistors, selenium rectifiers and miniature i.f. transformers. The printed circuit used in combination resistor-capacitor units was introduced. Again there was an increase in the number of broadcasting stations. The real value of the war-time research became evident in communications. There were improvements in aircraft radio. Airborne and shipborne radar in commercial navigation came into use and also new electronic circuits in industry. Electronic computers, radio frequency heating, photo-electric controls, and other electronic mechanisms were prominent improvements. The pulse techniques and other unique methods of modulating radio radiations began to appear. There was great progress in the frequency-modulated and television antennas along with the development of slot antennas for vhf and uhf. However, radar did not achieve the predicted position of importance which some optimists had predicted for it.

1948 Production of broadcast receivers continued heavily in the first part of 1948. People were insisting on well-known "name" products and gradually the supply caught up and passed the demand. The chief reason for this was that Television was coming into its own. The RMA standard for television transmissions had previously been accepted, and in 1948 it became clear that its framework resulted in good techniques of transmission and reception. In the larger areas of New York, Washington, Baltimore, Boston, Chicago, etc., Television was the main topic of discussion. The telecasting of Republican and Democratic conventions from Philadelphia made newspaper headlines throughout the nation. People bought television receivers as they became available. The RCA 630 and the Dumont were the basic receiver circuits and were licensed to the other manufacturers. The radio industry took on the production of TV receivers in earnest. During 1948 a 7-inch tube receiver made its appearance in the low-price market. The most popular, however, was the 10-inch receiver. A 12-inch set remained high priced and a 15-inch set was definitely a luxury.

A number of projection receivers also appeared on the market. Television was here. Its acceptance was no longer doubted. The communications field increased in activity and vhf, uhf and micro-wave came into their own for civilian use. Mobile communications services expanded, including taxicabs, railroads and other common carriers. In the phonograph field, the so-called LP phonograph record was introduced, making it possible to accommodate the average symphony or concerto on a single disc, with attendant saving in storage space.

1949 No one any longer questions that Television is here. Everyone looks forward to the rapid growth of TV reception. In fact, progress was so rapid that the FCC had to freeze new grants in order to re-examine the method of allocation. With the assurance that the present 12 channels will not be disturbed but merely supplemented in the future, industry scheduled the production of two million TV receivers in 1949. Reports show that this production figure should be reached or even surpassed.

The RCA 16-inch metal tube has made its appearance. Other makes are featuring the 15-inch glass and the 16-inch metal picture tube. The public wants larger screens. Apparently the 7-inch will be the portable, the 10-inch the low-priced, the 12-inch the normal, and the 15- and 16-inch the better TV receivers. Prices are dropping at this writing and a 10-inch television receiver can be purchased for well under two hundred dollars, whereas the same receiver in 1947 and 1948 sold

for over three hundred. The industry is even talking about color television, although the methods are not certain.

RCA got out its own micro-groove record, introducing the 45 rpm 7-inch record with a unique fast-acting reproducer. The industry is faced with the problem of building phonographs that will take the old 78 rpm, the new LP 33 1/3 rpm and new RCA 45 rpm records. The solution seems to lie in the three-speed record changers now appearing on most new console receivers.

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For Trade or sale: Atwater Kent crystal breadboard, missing the crystal detector, has the varicoupler. Would like to trade for an AK radio I don't have, tombstone or cathedral, or sell. Contact: Mike Schwartzman, schwartz@wpe.com Cooperstown, NY 607-547-6264

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EMERSON

FOR SALE: EMERSON, model 908, wood, n nce condtion, untested $20.00 plus UPS. Phone or wrte, (601) 922-2235. Thomas Burnside, 4838 S. Westhaven Dr., Jackson, MS 39209-4711. jan 97

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FOR SALE: GLOBE SCOUT 680, library bound QST's 1940-1949, Heathkit communication receiver AR-2, Hammarlund 24 hour clock, Mike Grimes, 3805 Appomattox, Plano, TX 75023 (972) 867-6373. [9712]

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FOR SALE: Radio Art Book (Hawes) 128 pages (225 COLOR pictures- crystal sets, radios, speakers) $10.00 -- HORN SPEAKERS: Atwater Kent (model L) $95. -- Magnavox $95.00 (excellent drivers) -- electrical advertising sign (RCA Expert Radio Service) $185.00 -- Microphones: type 4021 - Standard Telephone Cables LTD, London $175.00 -- Admiralty Pattern 1359 $225.00 (original boxes). -- General electric cat. no. BCS 1580 $225.00 -- Mark III short wave tuner $1,750.00 --- French speaker (Mother of Pearl) MINILUX HERVOR no. 4096 $1,250.00 -- Radio and TV puzzles (RJ series) $95.00 each -- Crystal set (The Listener E. R. FONE) Tortoise Shell $1,250 -- Nipper souvenir book (1,000 pages/ 2,000 illustrations) $35.00 -- FREE LIST (crystal and needles tins, phonograph items, items, etc.) Shipping extra. ----- Jerry Madsen, 4624 W. Woodland Road, Edina, MN 55424-1553 (Telephone and Fax, (612) 926-7775). [S9711]

RADIOLA-III FANS: Professionally drawn diagram with itemized parts list giving all values, $3.00 plus LSASE. Affordable WD-11 replacement units, lots of III/III-A support literature. Details free for long SASE. WANTED: Diagram and/or manual for Oak Ridge Products Signal Generator, model 103; RCA wood table set, model 5T4 as pictured in Red Book for 1936 and Red Book Vol. I and II; Philmore 7001C as shown in Allied catalogs of mid-1950's. Have hard to find 7001CR and earlier 6C6 version of same set, unbuily in box, for trade. -- Dave Smith, K9UIM, P. O. Box 81, Olney, IL 62450 E-mail -- k9uim-a@juno.com [S9711]

DeFOREST Radio Telephone & Telegraph "Kismet" 1920's battery set (uses 5 of C-301A's) with MAJESTIC "GGH" Horn. Both VG+ - $450. AMERICAN BOSCH Model 28 - $75. Sansui 1000A Tuner-Amplifier, uses 4 of 7591 output, works & looks excellent - $275 includes new 7591's. PHILCO PT-44, like new - $65. HICKOK I-177 Military Tube Tester, works good - $75. Also, many NOS ham radio sweep tubes at fair prices (like 6LQ6 - $25). DIGITAL PHOTOS AVAILABLE FOR MOST ITEMS. Please email for your requests. Bob Putnak, 1507 4th Street, Monongahela, PA 15063 (412) 258-6236. email: rjputnak@b4futures.net [S9710]

Transistor Radios For Sale: Silvertone 2205, VERY nice, been in leather case, $40Zephyr ZR620, Excellent except small chip near back, bottom of side, $150 Motorola 56T1 from 1957, Excellent, small paint wear near vol. knob, $250 Big Spark Plug, vgc, $75 Big Watch Radio, vgc, $80 Silvertone model 214, near perfect, $40 Planat Air Pocket Crystal Set - "World's Smallest Radio", with box, phone, instructions, Box quote: "No batteries, no tubes", good, offer Raleigh AM set made to look like small B&W TV set, good, big, $30 Conar transistor test set-an AM radio with socketed transistors on top for "in-circuit" testing of germainum transistors, good, rare, $100 Gary Follett, 587 Pelham Blvd., St. Paul, MN 55104 gfbike@millcomm.com

FOR SALE: Ham/short wave receivers, Realistic DX-160 w/SP-150 speaker$125, Hallicrafters S-38-D $75, Drake R-4C w/4-NB Noise Blanker & MS-4Speaker (mint) $400. Chuck Bray ,1322 Ivy Rd, Bremerton, WA, 98310 (360) 373-1013

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For sale: Ham/shortwave receivers National SW-54, nice-works, $125 Hammerlund HQ-120X, nice-works great (recapped w/orange drops) $250 Chuck Bray, 1322 Ivy Rd, Bremerton WA, 98310 (360) 373-1013

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Huge list of Vintage/Classic gear including BC receivers back to late teens, vintage ham gear, etc. This is whats left of a retail showroom that close up around 1972 and left untouched. Follow this link for list: http://www.alltel.net/~kj5ag/hoss.htm Thanks, Brian - W5AMI AM North America - http://www.alltel.net/~kj5ag [S9711]

I'm looking for an outlet to sell a Hammond Solovox. The keyboard, amp, speaker, and wooden speaker box are all in very excellent condition. The multipin cable is also intact and in excellent condition. The whole package is very clean and no rust, dings, or discolorations. All the vacuum tubes (6SJ7's 6J5's, 6H6's 6SN7's, 6K6's, 6SK7's and (1) 5Y3) are also in place. I would consider best offer or old pre-1950 radios in trade. Thanks Tom Hunt 3308 Grasmere Drive, Lexington, KY 40503 (E-mail: thunt@lexmark.com) [9710]

EUROPEAN RADIOS FOR SALE! GERMANY/ HOLLAND/ ITALY: Newest list: July 09, 1997, Lowe Opta Wood*** AM/FM/SW "Betta Luxor" $95.00 - 2. Grundig Majestic plastic "100U" red/brn fair 1958 $55.00 - 3. Norleco LXXX AM TR plastic wht/brn fair 1968 $75.00 4. Grundig Majestic 997 bakelite AM/FM/SW 1959 $125.00 5. Grundig Majestic 92 AM/FM/PU BLONDE WOOD 1953 $75.00 6. Phonovox "Opta" brown/ white plastic beautiful 1954 $135.00 7. Grundig 92-US AM/FM/PU, blonde wood (small) 1953 $75.00 8. Grundig Majestic consolette KST 1953 AM/FM/SW/PH, excellent radio in fair condition, art deco cabinet $135.00 9. Phillips wood 1949/50 AM/FM/SW uses external speakers, speaker are not included use and kind of 6/8 amp. speakers, $100.00 10. Telefunken Caprice 5051W light plastic AM/FM $75.00 11. Grundig Majestic 2147U AM/FM/SW 1954 wood $100.00 12. Grundig Majestic 94U AM/FM/ALLSW plastic, nice $55.00 13. Grundig Majestic 2098 wood, fair AM/FM/all SW 1947 $150.00 14. R.C.A. International, made in West Germany, copy of Gr 5020 $165.00 15. Grundig 997 bakelite AM/FM/SW 1957/9 $135.00 16. Grundig Cr 361 AM/FM and cassette player 1967 $55.00 18. Concert, Yugoslav radio, all wood, 1957, AM/FM/SW $220.00 19. Milano, Italian wood table model AM/FM/SW 1957 mint $125.00 20. Norelco B5X33/05 AM/FM/SW 1955 wood 1955 very good $145.00 21. Geloso, Italian, made in Milano, wood, fair, 1949, AM/SW $125.00 Telephone (908) 607-0299. Fax (908) 679-8026. E-mail- Rgbent@aol.com -- RGB Enterprises, P. O. Box 5367, Old Bridge, NJ 08857 USA

Over 100 Antique tube radios for sale; (Admiral, Airline, Arvin, Coronado, Delco, Emerson, GE, Halicrafter, Jupiter, Monacor, Music Master, Musicaire, Philco, Pilot, RCA, Sylvania, Sentinel, Sonora, Silvertone, Tele-Tone, Traveler, Truetone, Westinghouse, Zenith) Send SASE or email or visit my web page for a complete list Dave Pewowaruk 931 23rd ST SE, Rochester, MN 55904 507-280-5975, HP95@AOL.COM , http://members.aol.com/hp95/radio.htm Consoles, Table top, Wood & Plastic from $15 to $100 priced to sell.

I am involved in a project to create a Radio & TV Museum in New Orleans. I would greatly appreciate your input: suggestions, contacts, potential problems, etc. Thanks in advance. Charlie Matkin, President N.O. Radio Theatre, Inc. http://www.gnofn.org/~nort Permanent email address: charlie.matkin@easyliving.com Charlie Matkin [S9711]

FOR SALE: Freed-Eisemann Model NR-60 ($90), Music Master Type 60 (NO CHASSIS, $45), Two Crosley 804-60 Jewelboxes ($75 and $60). Email ***at@flash.net or snail mail: Bill Buchsbaum 8638 Leyland Drive San Antonio, TX 78239***

OVER 300 RADIOS, OLD TV's, hi-fi, tubes and partrs. All types of old electronics, from a 1930's sunlamp to tube CB's plus 100's of books. And other interesting non-electric antiques. Huge photo list -- none larger 1.50 + 55 cents. SASE or pre-order 98 photolist, (I've been collecting all summer) $1.50 + (55 cent SASE). Zenith shortwave model H517T-chassis 5H60T. 3 band-2 SW and standard BC band. Reddish brown and black swirled plastic gold-metal dial, speaker grill and knob trim, brass pointer, gray translucent knobs. Very good condition, works good $39.50... M.R. Ohman, Box 314, albany, MN 56307. [S9710

]

I have started a Tesla Coil Web Ring. Web rings help link many related web pages together. Soon there will be hundreds of Tesla Coil web pages all linked together by this common ring. Won't you join us! If you would like to join the Telsa Coil Web Ring visit: rampages.onramp.net/~jgore/tesla/ring/join.htm I've made it super simple! It's Free. Will only take 5-10 minutes. Thanks for your support! .....RingMaster (jgore@onramp.net) P.S. You wouldn't beleive how many Tesla Sites I've already mailed! [S9711]

JBL PARAGON for sale, meticulously maintained since the 1960's, absolutely "A1" condition in cosmetics and performance, oiled walnut finish, all original JBL parts, (075's, 375's, LE15A's, N7000's, LX5's), located in Toronto, Canada, buyer will have to take this with him (I cant ship it) looking for serious offers please, tony@maresch.com or call 905-508-4378 before 10PM EST 14, August, 1997

1927 American Bosch Model 48 walnut wood radio. AC model. Does not open from top..from back. Front in 4 sections..2 & 3 open doors like a curtain to reveal drum dial and 3 knobs + bat handled switch. Sides 1 & 4 have carved wood leaves along the top and down each side of the doors openings. Wood looks like a very professional refinish. Chassis is black-wrinkle paint..all tags and chassis look new, BUT are original. i section uses UX280 and 2 - UX245 tubes, the other section uses 4 - UX224's. Beautiful table radio about 24" wide, 12" high, and 10" deep. Buyer pays 31.17 shipping. $125. E-mail oldradio@snoopy.bunt.com [9712]

FOR SALE: GLOBE SCOUT 680, library bound QST's, 1940 - 1949, Heathkit communications receiver AR-2, Hammalund 24 hour clock, Mike Grimes, 3805 Appomattox, Plano, TX 75023, (972) 867-6373. [S9710]

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FOR SALE Hallicrafter SX-71 and SR-46 speaker both in working order and in good shape $300.00. Belmont 6D111 white some paint chips otherwise fine $175.00 Philco model 60 good shape $250.00.Royal 500-H mint in box white paper work $225.00 Frank Prince 3316 tenth ave. Racine Wi. 53402 414-639-9307. [S9712]

HAVE MISC. FOR SALE ... Zenith dial glass and escutcheon (12 tube), Zeniths, several chassis, as is, portable organ tone buttons, power transformers, (misc.), tubes, 30's thru minatures, 1939 Millis phono amp. (no tubes) pwr. reg supplies 2-3 amps., lots of other stuff, Lyric console #50 tube output, Crosley Clock Radio, RCA 7T chassis and eschuteon, 116 Philco and speaker (torn) Hammarlund SX110c, NC270 and speaker, S27 am&fm receiver, Zenith microphone and recording assembly, loctal tube and eye, misc. electricdynamic speakers 47, R27 and 6 ch transx. (Eagle?), tank top Admiral phono, 78 rpm, plastic cabinet, Westinghouse table set 8" p.m., Craftsman AM&FM chassis (chrome), Air King push button (table), 10-6 and 2 meter pre-selector, misc. tube shields 30's thru 40's, books, electronic (radio), Bring your truck. All will call! A. Mechler, retired, Arts Radio, 2724 Wagner St., Cincinnati, OH 45225-2332.

FOR SALE: 1920's radios; Grebe, 5 tube TRF, Operadio, fld. pwr. revolute mach. xtal, all working, James E. Hurzeler, 2244 Via Acalones, Palos Verdes Estates, CA 90274. (310) 375-8594. jun 97

We proudly announce a great collection of antique German radios and accessories for sale, ranging from the 20s to the 70s. All the items for sale are listed with lots of details and many pictures. You can easily search them using a database-query and even download a text version of the actual catalog. Please have a look at the following website: http://www.rfl.de/fuesslin/radiosale.htm [9709]

FOR SALE: 65 YEAR ACCUMULATION of over 1500 radio tubes from the 20's to 60's, tube radios, transistor radios, tube testers, RF & audio signal generators, capacitor testers, 4" - 12" speaker. dynamic, magnetic & pm, vintage A & B power packs. Rider manuals, tube manuals, transistor testers, radio parts, capacitors, resistors, transistors, IF & RF coils, power transformers and much much more. Must sell entire lot due to illness. Pick up only. Thanks. --- George Greenberg, KD4OBV, 1701 Andros Isle K2, Coconut Creek, FL 33066. (954) 971-9053. nov 96

FOR SALE: 1890's Doctor's Shockbox, $800.00, Philco "cathedral" $425.00, Sansui stereo receiver $125.00 8mm, Ampro movie projector $175.00. more items, (541) 474-2596 apr 97

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I've designed a pair of one-tube radios that can drive a speaker on local stations and with a good longwire antenna. One is a superhet, one is a TRF circuit. These radios use a Compactron tube, still easily available many places. For a six-page construction article with full details, please send a buck for either article and a 55 cent SASE to: Dick Parks 2620 Lake Ridge Ct. Oakton, Va. 22124 Thanks, and stay well. dparks@erols.ccm [9709]

FOR SALE: FIFTY- 1930's radios, tombstones, gothics, cathedral, small wood, bakelite table models, $25.00 to $350.00 each. 30 VCR's, test equipment, stereo receivers; Marantz, fisher, Pioneer, Sansui and more. Seidel, (541) 474-2596. June 97

I will trade my Airline model 1541 (fruits & flowers) radio for a Trophy Baseball radio. Please E-mail: Radios@rrnet.com or call 701-235-1085, Thank you!! Barry Rahman, I live in Fargo ND. nov 96

FOR SALE: OLD RADIOS, TOMBSTONES, GOTHIC. 25 small wood radios 1933 to 1946. $35.00 up. Hi-end VCRs $50.00 up. Nice test equipment. Chuck, (541) 474-2596. may 97

FOR SALE: CABINET ONLY WITH DIAL GLASS FOR ZENITH 6s-27, $30.00. PICKETT SLIDERULE WITH CASE AND INSTRUCTIONS, $10.00. -- JAMES S. LOONEY, Route 1 Box 54, Grundy, VA 24614. (540) 531-8677. feb 97

FOR SALE: POWER AMPLIFIERS, Bogen M0100A 4-8419's; Webster Electric 82-25 Pr. 6L6's; Dukane 1B665 Pr. EL84's; RCA 12238 6 watt 6L6; RCA M1-12218B Pr. 6V6's 115VAC or 6VDC; Siltronics port. bat. amp. built in horn and microphone; Monarch SA-614 stereo amp.; Altec Lansing crossover networks new, old stock #N-1550A; Electrovoice mike model 911; Shure mike model 911; Shure mike model 22NB cartridge, no spring ring ---- Phil Guinan, Litchfield, NH 03052. (603) 889-6213. jun 96

ATWATER KENT 365, CHASSIS COMPLETE, CABINET, VERY ROUGH. CABINET FOR, A.C.DAYTON XL50, EX. COND., OVER 2000 TUBES. 60 RADIO'S, COMMODORE COMPUTERS, MASTERMARVEL ENLARGER, THURNER 254 IC., TUBE CB'S. COLUMBIA PHONO. SEND WANT'S.-- J.R.MANNINEN, RR1, BOX 157,HANCOCK, MI .49930 (906)487-5571. ---- EMAIL rmaninen@up.net

TUBE CADDIES - GE very good $25.00 - plain brown $20.00 --- Kenneth Miller, 10027 Calvin Street, Pittsburgh, PA 15235. (412) 242-4701.

TRANSISTOR RADIOS, WHITE RCA R2G101J $5.00, Black Delltone #613 $5.00, clock transistor radio in brown case, model number unknown $10.00, Lafayette AM-FM tube radio wooden cabinet, good condition, model number unknown $15.00. RCA model number 3RC76 AM-FM wooden cabinet radio $15.00. All radios play and in good working condition. One box mostly TV tubes, new in box about 130 tubes $25.00. Send SASE for list. ---- James S. Looney, Route 1 Box 54, Grundy, VA 24614. (540) 531-8677. oct 96

FOR SALE: TRANSISTORS: RCA R2G101J $10.00; DELTONE 613 $10.00; clock radio, model number unknown $10.00, 3" reel tape recorder $10.00, all play, --- James S. Looney, Route 1 Box 54, Grundy VA 24614. (540) 531-8677. may 96

NOVELTY TRANSISTORS - choice $25.00, rest room radio, Arrow micro cathedral, Realtone Flying Saucer, Singing Smurf --- plus UPS -- Chuck Bray, 1322 Ivy Road, Bremerton, WA 90310, (360) 373-1013. april 96

FOR SALE: Freed-Eisemann Model NR-60 ($90), Music Master Type 60 (NO CHASSIS, $45), Two Crosley 804-60 Jewelboxes ($75 and $60). Email ***at@flash.net or snail mail: Bill Buchsbaum 8638 Leyland Drive, San Antonio, TX 78239 [S9709]***

Central Ohio Antique Radio Association: located in Columbus, Ohio. Contact Chuck Davis (614)792-6237 or email Steve Johnson sjohn3@ix.netcom.com. [S9711]

Also would you please add our Radio event to your EVENTS page??? Central Ohio Antique Radio Club: Antique Radio Swap Meet, Jan.31, 1998, Columbus, Ohio. Antique tube radios, transistor radios, vintage Shortwave radios, radios of all years, makes and models are sold at this event. For more details call Chuck Davis (614)792-6237, or check out our event webpage at www2.netcom.com/~sjohn3/swap.jpg! [S9711]

FOR SALE: INVICTA, 5 tube minature, made in Japan. T $10.00 LEARADIO (THE PILOTS PREFERENCE), model APR-1 portable, beacon and broadcast receiver, wood case, cloth cover with leather handle and name tag. 1.5V, Lear Development Inc. good to very good condition, works. $150.00 METEOR, 4 tube kit radio? Chassis complete. Light blue-grey plastic. Not working. $8.00. Huge new photolist. Hundreds of antique radios. Old electronic books and more., $1.50 + SASE (55 cents), Radio Ranch, 10745 255th AVE. NE, Belgrade, MN 56312. may 97

FOR SALE: SIXTY OLD RADIOS, woods, bakelites, $35.00 up. beta VCR's, VHS VCR's, Old stereo receivers, Fisher, bogen, Sansui, Pioneer, Kenwood $50.00 up. Seidel (541) 474-2596.

FOR SALE: CRYSTAL radio set kits and parts. send SASE for brochure. Carl & Grace Ent. 5636 Romeyn, Detroit, MI 48209. jun 96

RADIO VOICE - news in Spanish or English, published author, technical writer --- Valerie Atkinson, (512) 622-3836 http://www.bga.com/~valerie Valerie@bga.com, 13 Sunrise Acres, Kyle, TX 78640 dec 96

TUBES, SCHEMATICS, service notes, Riders, Sams Photofact Folders and Treansistor Books, etc. for early radios. LSASE for price list. Sam Faust, P. O. Box 94, Changewater, NJ 07831. nov 96

FOR SALE: Reprint of book, "GILBERT RADIO APPARATUS, 1919" 64 pages, written by Clarence Tuska, associate IRE, Send $10.95 plus $2.00 for shipping. --- Tuning condensers, capacitors, single, 2 gang, 3 gang, receiving, transmitting from 1924 to 1954, $5.00 to $15.00 plus shipping. Tube sockets, fuseholders, pilot light assemblies, ball and bat handle toggle switches, new and used 50 cents to $5.00 plus shipping. Custom made in plug in coil forms, 4, 5, 6 octal based and SW-3 replacements. --- James Fred, R 1, Cutler, IN 46920. Phone (317) 268-2214. oct 95

NEW RELEASE: Lots of everything All complete and cosmetically good plus other vintage items. For details send 2-STAMP LSASE FOR 20 PAGE FLYER, NO, 196A TO: OLDE TYME RADIO COMPANY, 2445 LYTTONSVILLE ROAD, SUITE 317, SILVER SPRING, MD 20910. Phone/fax (301) 587-5280. jun 97

HALLICRAFTER

FOR SALE: HALLICRAFTER RECEIVERS-- both work and look good, SX-16 $300.00 and S-38-EM $100.00 plus UPS -- Merry Christmas -- Chuck Bray, 1322 Ivy Road, Bremerton, WA 98310. (360) 373-1013. dec 96

HAMMARLUND

FOR SALE: Hammarlund HQ110C and matching S-100 speaker. Receiver in outstanding near mint condition. No scratches, dings, etc. Works. All new tubes. Clean inside. Clock works, but timer wire not hooked up inside. All original except an SO-239 antenna connector has been added to rear apron (but well done). Speaker works well, has minor scratches on top -- cloth and medallian excellent. E-mail or call for more info. w4lc@juno.com 606-525-2776 eves. $225 plus shipping. jun 97

HEATHKIT

Ham Transceivers Heathkit HW-101, SSB, all band $200 Yaesu FT-101-B, SSB, all band w/FV-101-B external VFO $500 Chuck Bray, 1322 Ivy Rd, Bremerton WA 98310 (360) 373-1013 [9709]

INFORMATION

WHO'S INTERESTED in collecting/ sharing information on console and portable (wooden case) pohonographs from the 1950-60's? Call Dave (810) 349-9904. or e-mail dschmidt@teleweb.net nov 96

JUKEBOX

For Sale Juke Boxes 1956 Wurlitzer Model 1900 $3500 Also A 1954 Wurlitzer Model 1650 $2500 Or Both For $5000 For Information Call Pat Mancillas AT (209) 291-9344 Clovis Ca. 93612 1955 Seeburg Jukebox. Original parts. Needs minor repair. Make offer. Contact Bill 972-524-2086 or Dave 972-563-3308. IODOLRBIL@aol.com

LITERATURE

FOR SALE: Sams Photofacts #177 to #1801 and schematics for Emerson, G.E., Motorola, and RCA radios from the '50s - $2.50 each + shipping. Michelle Troutman, 47 North Main St., Brewer, ME 04412-2007. E-mail: michelle@acadia.net, http://www.acadia.net/michelle/index.htm {S9711]

BOOKS FOR SALE: The Radio amateur Handbook, $20.00 each - 1936 (no cover) 1942 Special Defense Edition - 1943, 1948, 1949, 1953, 1958, 1959, 1963, 1966, 1978, 1980, Learning The Radio telegraph Code, $10.00 each - 1961, 1968, 1970 A Course in Radio Fundamentals, 1960, $10.00 - The Radio Amateurs Operating Manual, 1966, $10.00 - Hints and Kinks, Volume 6, 1959, $20.00 - Single Sideband for the Radio Amateur, 1965, $20.00 - Ham Radio Handbook, Electronics Illustrated, 1959, $25.00 (with dust cover) - The Radio Handbook (loose cover) 1938 $25.00 - The Editors of Radio (magazine) excellent book Sam's Automatic Record Changer Service Manuals, all for $100.00 - Volumes 2, 3, 4, 5, 7, 9, 12 (also covers wire and tape recorders) - Heathkit DC Electronics course $15.00 - Radio Trouble Shooters Handbook, Ghirardi, 1939, $40.00, work cover but excellent book. ---- U.S.A. mail included --- Chuck Bray, 1322 Ivy Road, Bremerton, WA 98310 (360) 373-1013. [9712]

POPULAR ELECTRONICS, electronic handbooks and other electronic hobby magazines for sale @ $.25 each. Other radio and electrical magazines slightly higher. Last chance, all unsold issues going to the local library sale.. Golman, 3 Amy Lane, Queensbury, NY 12804 [S9711]

SAMS PHOTO FACTS for automotive radios, many 1950's types. Send SASE for large list. Zenith, nice, circa 1952, poster full color, shows maroon AM FM clock radio and green AM clock radio, really nice condition, 55.00 PR Novelty, P. O. Box 140, Milwaukee, WI 53201. [9709-2]

FOR SALE: 52 popular electronic magazines, dates 1972-1982, all $18.00 plus shipping, phone or write, (601) 922-2235 --- Thomas Burnside, 4838 South Westhaven Drive, Jackson, MS 39209-4711.

HOWARD SAMS ELECTRONIC SERVICING. Five books in original envelope- never used. The Professional Technicians Guide to Solid State Servicing - Color TV - C.B. - stereo FM - color TV circuit operation. All for $15.00 -- Manual no. 3 "Electrical Instruments and Telephones of the U.S. Signal Corps." 1905 by Brigadier General A. W. Greely. Very good condition, $25.00 -- Kenneth Miller, 10027 Calvin Street, Pittsburgh, PA 15235. (412) 242-4701. oct 96

SCHEMATICS for most radios from 1920's through 1940's, some 1950's. Send S.A.S.E. and $3.00 for each schematic. If schematic is unavailable, money will be refunded. --- Antique Radio Schematic Service, 13911 Kensington Place, Houston, TX 77034.

FOR SALE: GENERAL ELECTRIC FACTORY SERVICE BULLETINS, 185 bulletins covering hundred of different models. $35.00 plus UPS, Phil Guinan, 106 Page Road, Litchfield, NH 03052. (603) 889-6213. apr 96

FOR SALE: BOOKS, Practical Radio Circuits (1938) $4.00, Profitable Radio Troubleshooting $5.00. All plus UPS, phone or write -- Thomas Burnside, 4838 S. Westhaven Drive, Jackson, MS 39209. Phone (601) 922-2235.

FOR SALE: SAMS AR series no. 22 thru 321. Also some HTP, TR, MHF and TSM $3.00 each for AR -- $2.00 for others plus shipping -- Jesse Armstrong, 220 Oakdale, Pasadena, TX 77506. (713) 473-8925.

As promised, I just wanted to let you know that the 4th Edition of "Maloney's Antiques & Collectibles Resource Directory" is now ready for delivery! I've seen it and it looks great. It's 672 pages long (8 1/2" x 11") and contains all that great hard-to-find information you've come to expect from "Maloney's" -- almost 16,000 listings covering 2,950 categories of antiques and collectibles! Experts, buyers, sellers, collectors, clubs, periodicals, appraisers, auctioneers, matching services, repair firms -- we've got it all right here in one place. On to business. You fall into one of three categories: 1. You bought the book earlier this year at a super pre-publication discount and you paid by check. Well, you will be glad to hear that the book's in the mail if you haven't received it already! 2. You bought the book earlier this year at a super pre-publication discount and you paid by credit card. Well, those orders are being processed as we speak and will be mailed soon. 3. You have not yet bought the book. Well, I still have a special offer for you. You see, you really need this book, and I'm offering it at a discounted price of $26.95 + S&H. I'm also throwing is a guarantee. If this book is not helpful to you, just mail it back (in undamaged condition, of course!) and I'll refund your money. It's that simple. -- By the way, please buy the book from me. Why? That's simple, too. I'll make more money than if you buy it from any other source. But I don't want you to pay me any more than you would have to pay somewhere else, so here's a real deal for you -- I'll beat any price! That's right, if you see this book for sale at a price lower than $26.95, I'll beat it. Just mail me proof along with your payment (don't forget to add S&H) and I'll mail you back a dollar! Like I said, I want you to buy my book from me. But if you can't wait for the discount boys to offer this book for a few bucks less, go ahead and order if from me now. I deserve it and you'll feel better knowing you did! The cost is only $26.95 (that's $2 off the regular price!) plus $4 S&H (Canada add $4 more, overseas add $10 more, MD residents add $1.40 sales tax.) Send check or money order to Maloney's, P.O. Box 2049, Frederick, MD 21702-1049. Visa/MC orders can call 800-472-4732 (orders only) from 9-4 EST. If you want to learn more about the book check out our website at http://www.maloney.com. Best wishes, Dave Maloney "Maloney's Antiques & Collectibles Resource Directory" P.O. Box 2049 Frederick, MD 21702-1049 phone: 301-695-8544 fax: 301-695-6491 email: dave@maloney.com webstite: http://www.maloney.com P.S. Many of you are using an old edition of "Maloney's". Well, you need to throw it away! Better yet, recycle it - each copy contains about half a tree. The earlier editions are out of date. Old phone numbers. Addresses have changed. Some listees have even passed on to that great flea market in the sky. Make sure you have the current updated 4th edition -- it's got tons of new information including thousands of new listings. Loads of email and internet address in the 4th edition, too! [S9710]

FOR SALE: Copies: Hard To find Schematics for Radios, Also kit radios, 1922-1950. Manuals: test equipment, ham gear. Contact me for prices. availability — Duane Ballew, 6813 152nd Street Ct. NW, Gig Harbor, WA 98332. (253) 851-4505. may 96

FOR SALE: SAM's in binders, binder number 20, 21, 22, 23, 24, and 25 in good condition $6.00 each plus UPS — Phone or write: Thomas Burnside, 4838 S. Westhaven Drive, Jackson, MS 39209-4711. (601) 922-2235.

MAGNAVOX

MICROMATIC TURNTABLE, made in England, 78, 45, 33 and 16; 66 inches long, 26 inches high, sliding top and record storage — Astrosonic Radio — Paul Orf, route 1 Box 152AB, Canton TX 75103. (903) 848-1146. dec 95

MAJESTIC

FOR SALE: 1929 Majestic Model 90 Console Radio. Walnut over solid oak cabinetry with solid brass hardware in impeccable condition. Radio is complete and working, but requires adjustment to perform optimally. Schematic included. $225 obo. K.R. McConnaughay, 326 Round Hill Court, Bolingbrook, IL 60440. (630) 739-3793

PARTS

PARTS WESTERN ELECTRIC TRANSISTOR, NOS, circa 1959, original boxes marked "#2114" on transistor boxes marked in pen "2114 yellow" 10.00 each. Carbon film resistors half watt size as low as .06each FP can capacitors 3.00 each. Send SASE for lists. PR NOVELTY, P. O. Box 140, Milwaukee, WI 53201. [9709-2]

FOR SALE The following Halldorson filter,chokes and transformers in original boxes: 2ea T-341, 2ea T-343, 1ea HVAT-1, 2ea HVAT-3, 1ea B4-810, 1ea B4-806 and 2ea HVPT-4. Contact Ron Dzuba, 2627 Eureka Hill Road, Pt. Arena CA. 95468, Tel# 707-882-2145, E-mail: dzuba@mcn.org. High bid for 1 or all. You pay shipping: jun 97

A POWER SUPPLY for remote electro magnetic field, used with 1926 Operadio model 106 2106, working and phoro is available, $50.00 plus shipping. James E. Hurzeler, 2244 Via Acalones, Palos Verdes Estates, CA 90274 (310) 375-8594 [S9710]

LARGE STOCK VARIABLE AND FIXED AIR CAPACITORS AND TRANSFORMERS. SASE TO: BILL RILEY - W7EXB, 863 W. 38TH AVENUE, EUGENE, OR 97405.

REPLACEMENT GRILL CLOTH for Radiola 103 speakers, excellent silk screen reproduction of the original tapestry, $32.00 each plus $3.00 s.h... Phil Guinan, 106 Page Road, Litchfield, New Hampshire 03052. (603) 889-6213. apr 97

PHILCO

FOR SALE: Complete Instructions For Adjusting All Philco Radio Receivers, a 1934 Philco Service Department reproduction. $3.50, postpaid. Pete Petersen, 5414 120th Ave., SE, Bellevue, WA 98006. apr 97

PHILCO B370FWH MINATURE B&W television on low pedistal, works, looks great, $35.00 — Kenneth Miller, 10027 Calvin Street, Pittsburgh, PA 15235. (412) 242-4701. oct 96

PHONOGRAPH

GRAMOPHONES REPO'S AVAILABLE FOR SALE, GRAMOPHONE REPO'S (BOX TYPE WITH LID) IN TWO SIZES. CUSTOM-DESIGNED BRASS HORNS AVAILABLE. PLEASE WRITE TO : ANUPAGGY@AOL.COM [9710]

FOR SALE : THOMAS EDISON Diamond Disk Official Laboratory model, This phonograph is a CC-32 Chippendale console in mint condition. $1,000.00. Call (541) 923-6824. Plus 34 records.

FREE TO GOOD HOME - RCA Victor record player cabinet. Includes two turntables (7" & 10/12"), speaker, and AM/FM Radio. Probably mid-fifties. Radio works, tables turn. Space for TV. Lots of wood. Seattle 206-320-7094

I have a Walton 9s232 in great shape for $1600.00 Edison Ambrolla no.18 good working order $450.00 Columbia Graphophone type Q for $450.00, a child's phonograph made in Germany for $350.00 (414)-639-9307 Frank Prince 3316 tenth ave. Racine Wi. 53402 adiolaman@ultra1.phoenixnet.net jun 97

We inherited a Victrola phonograph player (large stand-up cabinet type) and were wondering if there were any dealers or shops in the Dallas area that buys these. I hate to say that we know nothing about these wonderful players, but it does seem to be in very good shape. We also have probably 150 records from the 1930's through the 1950's era. We would like to sell these to someone who could appreciate them more than we are able to. Thanks, Neil David end1@ti.com 972-480-6082

Selling Victor floor model VV-210 for $100. Has broken door hinge but works ok. To be picked up only. Address: 6 Meadow St. Amsterdam,NY. Phone 518-843-3228. goodo@telenet.net jun 97

I've have the following Old Stylus's and they are new still in plasic box/or ackage. Not priced, but if you see something you need, make offer or make offer on whole lot. If interested contact: David Abernathy, 2580 Candler Way, Marietta, Ga 30064 E-MAIL: CBSHOP@AOL.COM Below is the list of Stylus's.....I also have a few NOS 25 plus years old vacuum tubes that are new still in box, e-mail or write for tube list...too long to post here. See Stylus list below. Pagent: RCA 45 Type (long) Stylus for Cartridge Ronette BF-40 PE-90 Point size 7 mil stereo Stylus for Cart. Astatic 13TX Point size 7mil stereo and 3mil Standard Stylus for Cart. Sonotone 9-T Series Point size 7mil Stereo and 3mil Standard Recoton for Sonotone N-8T-SD point size 7/3mil for 8T4-SD cartridge Zenith Power Plant Phono Cartridge (142-87) Zenith Radionic Cobra Cartridge (S-15780) Zenith Genuine Diamond Phono Cartridge (#142-106) Philco 325-8232D High-Fidelity Genu' Diamond Philco 325-8024 Phono Cartridge and Needle(needle missing) Electro-Voice Cartridge part# 530025-417 Replaces the following..... Electro-Voice 13, Astatic 13T; 13AT. Airline 60-60, Jensen 44, Philco 35-2817, VM 18615-A, Webcor 21P586, Zenith 142-106.... also have: Jensen A-67LP (Astatic K(J)) Jensen PH-13 (Philco 45-9787) Perfectone HF (Ronette, Astatic, Jensen, BSR....#5304L,N8-1J) Perfectone HF (Ronette B.F.-40) Pagent for Sonotone 8-TA Then I've got Stylus's that are Pagent Sapphire Tip, Application unknown...not straight, zig zag in shape...two bends.... and Pagent, Osmium Tip....similar to above, but shorter and straight... jun 97

FOR SALE: L. M. SANDWICK, 16 inch "disk" playe in leatheette cabinet, 5 tube amp., speake, mike input, 33-78 rpm, $75.00 plus U.P.S. -- Phil Guinan, 106 Page Road, Litchfield, NH 03052. (603) 889-6213. apr 97

FOR SALE: Cheney 857 windup phonograph, style 31, s/n 103934, ca 1916. Two tone oak cabinet by Berkey & Gay. Two reproducers. Excellent condition, inside and out. $300. J. Ligouri, 7 Sycamore Court, Atkinson, NH 03811. 603-362-5712 e-mail: Jjligouri@aol.com jun 97

I have a collection of old albums... early 1900's . Most are the kind that have grooves on just one side. Where would/how I search for the value. I estimate that I have nearly 40 albums. Joe Reece - cvacjack@usit.net - (901) 664 7776

MAIL BID OLD PAPER AUCTIONS. INCLUDING ORIGINAL PHONOGRAPH ADVERTISING BOOKLETS. 1906-1907. STAMP FOR LIST -- STAATE, 215 POPLAR, ONALASKA, WI 54650. (608) 783-1973.

For Sale: TOK FONE record player/recorder made by regal amp co. fair shape.hardware rusty. call (904) 428-1833 or email daviselec@earthlink.net Make fair offer. nov 96

I acquired a "Peerless Portable" phonograph a while back, and would like to sell it. I know nothing about these things. I do know it winds up with a crank and plays 78 RPM records okay. The diaphragm (if that's what the round thing in which the needle fits is called) is labeled "Union Phonograph Supply Co., Cleveland." Malcolm Allred, maallred@vicksburg.com, or call 601-638-7484. Best offer

Sounds Of Old.: Your best stop for Phonographs, Graphophones, Roller Organs and Music Boxes. Also including other Automatic Musical Machines. Member of MAPS and of NEWMAPS (Wisconsin Chapter) Email: Kenneth@victrola.com Phone: (941) 465-4145 may 96

RADIO SHOWS

FOR SALE: MANY OF YOUR FAVORITE OLD TIME RADIO SHOWS ARE AVAILABLE ON TAPE CASSETTES. YOU SELECT THE SHOWS YOU WANT AND PURCHASE THEM BY THE HOUR. FAST, FRIENDLY SERVICE. SEND FOR OUR CATALOG LISTING OVER 5,400 SHOWS ARRANGED BY CATEGORY AND TITLE. ONLY $2.00 (P & H). SEND REQUEST TO: ERSTWHILE RADIO, P.O. BOX 2284, PEABODY, MA 01960.

LISTEN TO OLD TIME RADIO SHOWS AND VINTAGE MUSIC ON YOUR BACK YARD SATELLITE DISH or local cable TV system. This service is free and without commercials. For more information, call The Yesterday USA Satellite Superstation Network, 2001 Plymouth Rock, Richardson, TX 75081. (214) 690-3636, 24 hour FAX (214) 644-2473. jan 95

RADIOLA

For sale Radiola 20 only needs minor restoration to wood,replaced audio,inside super $175.00 plus UPS from Ca. radiola@as.net [S9711]

SHORT WAVE

10 BAND NINIATURE SHORT WAVE RADIOS! Listen to the entire world, (takes 2 AA batteries or 3 volt adapter, not included) Price break. $35.00 postpaid. Richard Brill, P. O. Box 5367, Old Bridge, NJ 08857.

SERVICE

Services: Schematics/information for sets mad 1920-1960 mailed or faxed. $3 radios $4 for TVs ppd. Include make and model number. Robert Schrantz ph/fax 909-394-1194 schrantz@rodigy.net. Thank you [S9712]

HORN SPEAKER REPAIRS. REPAIRS to most horn driver units -- world- wide service. Diaphragm repair/ replacement. Repairs to all antique speakers, including auto, home and professional. Recone kits available on many makes and models of speakers. Atwater kent, Zenith and many others. Also large selection of speaker drivers -- woofers, midrange and tweeters. Unfinished cabinets to match woofers, tweeters and crossovers available. Celebrating our 25th year with thousands of satisfied customers. SPECIAL OFFER! 2nd speaker half price on repair of three or more speakers in one shipment. World wide repair service. Speakerworld Technology, 2000 Warm Sps. Ct. #6, Fremont, CA 94539-6744. (510) 490-5842. Fax (800) 577-3253.

SPEAKERS

IV'E SEVERAL HORN SPEAKERS bases without horns, horn without bases and horns without bells. If you've horn speaker parts for sale or trade or if you are looking for a part maybe we can help one another and trade or buy and sell as needed. -- Charles R. Combs, 508 E. Daniel, Albany, MO 64402. (816) 726-3038. mar 96

TEST EQUIPMENT

FOR SALE: Tektronics 545-B Dual Time base Oscilloscope with type M 4 channel plug-in module, good condition, works--Chuck Bray, 1322 Ivy Rd, Bremerton WA,98310. (360)373-1013 [S9711]

Tecktronix 547 Scope with 1A5 dual trace module. So. California only due to weight. Bill Wiseman 25999 Glen Eden Rd. Corona, CA 91719 909-277-9629 bwiseman@earthlink.net [9709]

FOR SALE: C.R. Bridge and Signal Tracer. Superior Instruments Co. Model 76. Good working condition with instruction manual. $20. plus shipping. E Mail Kevin. tube@staffnet.com or call (540) 657-9538 Thanks. Kevin

TUBE TESTERS - HICKOKS - HEATHKIT - PRECISION - WRITE FOR DETAILS. Please add U.P.S. charges. ---- Kenneth Miller, 10027 Calvin Street, Pittsburgh, PA 15235. (412) 242-4701. oct 96

FOR SALE: B&K sweep/marker generator model 415. Excellent condition with instruction manual. $45. plus shipping. E Mail Kevin. tube@staffnet.com or call (540) 657-9538 Thanks. Kevin.

PRECISION APPARATUS model ES-550 oscillograph. Working condition but needs tuning and tweeking. Some new tubes, 5" CRT is like new. $25.00 plus shipping (weighs 25-30 lbs) or best offer. Also UNITED ELECTRONICS LABS model E oscilloscope, working condition, 2" crt, open frame construction. $5.00 plus UPS (approx 8 lbs) or buy both ES-550 and model E for the cost of the ES-550 plus shipping for both. Negotiable. Contact Russ Blakeman at Rt. 1 Box 62E Harned, KY 40144 or (502) 756-1749 or by email at rhblake@bbtel.com

FOR SALE: Tube power supply. Jackson model 607D. Regulated adjustable output 150vdc-300vdc 100ma max. 6.3yac output 3 amps max. Adjustable negative supply. $30. plus 9 lbs. shipping. E Mail Kevin. tube@staffnet.com or call (540) 657-9538 Thanks. Kevin 14, August, 1997

FOR SALE: Test EquipmentOscillators: HEWLETT PACKARD 209A Sine/Square $225, HP204C $175, HP204B $125, HP200CD $125, EICO 377 Sine/Square $50; AC Voltmeters:HP400E $175, HP400H $75, HP400L Logarithmic $85, Total Harmonic Distortion(THD) Analyzers: HP333A Autonulling $450; Oscilloscopes: Tektronix T912$350, Eico 460 $85; HEATH IO12 oscilloscope $75; Variacs: STACO bench type10 amps $125, OHMITE VT8GC Bench type 6 Amps $85, All+ship. Mike Nowlen POB 1941, Herndon, VA 22070, mnowlen@cwi.net or (703) 716-1363 bef 10pm edt, mach 4th ring

FOR SALE: C.R. Bridge and Signal Tracer. Superior Instruments Co. Model 76. Good working condition with instruction manual. $20. plus shipping. E Mail Kevin. tube@staffnet.com or call (540) 657-9538 Thanks. Kevin 14, August, 1997 14, August, 1997

FOR SALE: SENCORE TUBE TESTER, mighty mite IV with tube book in working condition, has some rust on face, all working, readable $12.00 plus UPS. Phone or write, (601) 922-2235. ---- Mr. T. Burnside, 4838 S. Westhaven Drive, Jackson, MS 39209-4711. jun 96

TUBES

For Sale/Trade: Tubes, many 6L6 GA,GB, GC, 5U4 GA, GB, 6CAt/EL34, 5881. Most US manufacture. Used/Check OK. $5 each or will trade HEAVY on 2 used/good WD11 , some 01As or an AK 33. Have lots of 6V6, 25,35,50L6, 6SN7, 35Z5, 12BH7, 6BG6G, others, would trade REAL REAL HEAVY on 2 working WD 11s. Also would trade on 30s RCA tombstones-all replies answerd. Thanks, Bob Rosengarten 1448 Lebanon Road, Clarksville OH 45113, E-Mail: brose@erinet.com

RADIO TUBES, many new old stock, send large SASE (64 cents) for large list, PR Novelty, P. O. Box 140, Milwaukee, WI 53201 [9709-2]

FOR SALE: USED TUBES, $2.00 each, 5U4, 5Y3, 6BQ6, 6CU6, 6K7, 6Q7, 6D6, 6CD6, 6SN7, 1C7G, 1V, 78, 1626, 12Z3, 6A4LA, 6H6. James S. Looney, Route 1 Box 54, Grundy, VA 24614. (540) 531-8677. jun 97

TUBES For Sale: 8950 (8@$60 ea), 8908 (4@$50 ea), 6MJ6 (6@$45 ea), 6LQ6 (12@$35 ea), 8417 (8@$40 ea), 6JB6-A (20@ $17.50 ea), 6KV6-A (6@$25 ea), 6JG6 (2 @ $25 ea), 6LF6 (4@ $40 ea). Pat Smith, Antique Classic & Modern Electronics, 1207 E. Third St., Dayton, OH 45402, 937-223-TUBE (8823), e-mail LDRANNAN@aol.com. apr 97

FOR SALE used tested (Hickok) 6AL5, 6AU6, 6AX5, 6J5, 6BQ6 , 6BQ7, etc etc Mix or Match 20/10.00 12AU7, 6SN7, AA5 both min and Octal 10/10.00 Mix or match, also others, contact, Harry Pewowaruk, 1535 No 8th Ave, St Cloud Mn 56303 (320) 252-9910 e-mail PewowarukH@aol.com nov 96

FOR SALE National Union tubes in original boxes. Most of the boxes are sealed and intact but are dirty and dusty since they have been sitting in a garage for at least 40 years. There are three type of box designs which I will describe to help you identify them. Box 1 has a circle on the top and sides and are called radio tubes. Box 2 has N.U. on top and sides and are called electron tubes, Box3 has a picture of a radio tube on 2 sides.I will list them by Quantity, # tube type, * box design. 5#26*1, 2#27*2, 1#36*2, 1#37*1, 1#39/44*1, 1#45*2, 1#56*3, 1#77*1, 1#82*3, 1#89*3, 1#5Z3*2, 1#6A7*2, 2#6C6*1, 1#6C7*3, 1#6C5G*1, 1#6E7*3, 1#6F5G*1, 1#6F5MG*1, 1#6U7*1, 1#6N6G*3, 1#6N7*1, 1#6V7G*3, 1#12Q7G*1, 1#14B6*2, 1#25Z6GT*2 1#0Y4*2, 1#1A5GT/G*2, 1#1G4GT*2, 2#1LE3*2, 1#1LA4*2, 1#1LG5*2, 1#5Z4*2, 1#6A8*2 1#7A8*2, 1#7C5*2, 1#6L7*2, 1#6K6GT*2, 1#12J5*2.....45 TUBES sell them as 1 lot.. Contact Ronald G. Dzuba, 2627 Eureka Hill Road, Point Arena, CA 95468, Ph# 707-882-2145, E-mail: dzuba@mcn.org jun 97

FOR SALE: SHOP PULLED TUBES, untested, no boxes, 100 for $12.00, ppd, Phone or write. Mr. T. Burnside, 4838 S. Westhaven Drive, Jackson, MS 39209-4711. Phone (601) 922-2235. feb 96

FOR SALE: USED TUBES, 24, 32, 36, 57, 58, 85, 1D5g, UX199 - $2.00 each. Westinghouse H157 $20.00 transistor G.E. P945B $10.00 -- James Looney, Route 1 Box 54, Grundy, VA 24614-9705 (540) 531-8677. nov 96

ZENITH

ZENITH shortwave model H517T chassis 5H60T. 3-band 2 SW and standard BC band. Reddish brown and blac swirled plastic, gold metal dial, speaker, grill and knob trim. Brass pointer. gray translucent knobs, very good condition, works good --- M. R. Ohman, Box 314, Albany, MN 56307 [9712]

FOR SALE: ZENITH 6S-222, plays, cabinet bad $50.00, set of 4 wooden knobs from Zenith 6S-27 $5.00 each, speaker $15.00 dial glass $10.00 --- James S. Looney, Route 1 Box 54, Grundy, VA 24614. (540) 531-8677. dec 96

Zenith console model # 10S669 for sale. complete. Plays well but tuner needs cleaning. Cabinet needs some refinishing work but looks good. $85.00 E-mail Pkit48@aol.com Or call 810-751-0196. Warren Mi

WANT ADS

AMRAD

WANTED: AMRAD 3366 reflex, 2766, 1 stage amp., expensive OK! -- J. C. Woychowski, Fax (860) 739-4673. [S9711]

ATWATER KENT

WANTED: Atwater Kent radio to fit in a radio cabinet built by Adler-Royal in the early to mid 30s. Dimensions of radio face are approx, 9" wide and 6" high tapered at the top. Speaker is located on top with a diameter of approx 9" to 10". Cabinet is on legs and has two doors that open out from the middle that expose the radio face and speaker bay. Please contact Scontini@juno.com or write to: Sal Contini PO Box 5403 McAllen, TX 78502 TEL: 210-630-0806 jun 97

WANTED: TOP FOR AN ATWATER KENT MODEL 55, ALSO BASE AND REAR PORTION OF SPEAKER CASE (as shown in December 1991, Radio Age) Louis Dombrowski, 363 Kerby Road, Grosse Pointe Farms, MI 48236- 3144. Phone (313) 882-5087.

AUSTIN

WANTED: Info on Austin Radio Co. I have a model 41 Or 410 that was made in 1933 but has no manufacturer or address. It is a cathedral, TRF and uses only 4 tubes. The only reference to Austin is a small nameplate on the front. Alos, there is no license statement listing RCA patents. Dale B. Allen, 606 Third St., Herndon, VA 22070. EMail at dallen@melpar.esys.com

ECHOPHONE

Wanted: Echophone- model 17 upright table radio..Vincent Cormier 409-246-4318 E-mail... vincecorm@aol.com [S9711]

GENERAL

LOOKING FOR FADA "BULLET", Zenith 5R3-12, Philco PT-43 or PT 44 and General Television 591 --- Carter Tarrance, 810 Maryland, Athens, TX 75751 (903) 675-6547. [S9712]

Wanted to Buy. Tube Guitar Amplifiers and Effects, Bakelite Table Radios. Also will buy guitars, any condition. Thanks. fcapo@aol.com PH. 973-989-8892 [S9711]

Need wooden radio speakers. Also other horn speakers working or not, Rich Hapcak 1121 Sioux Drive Crown Point, IN 46307 [S9711]

I'M TRYING TO FIND INFO on an old radio that't in our family. It's a Westinghouse H-125. It's a portable about 4 inches wide by 10 inches high, has a fold out carring handle and looks like an old juke box. It runa on AC or DC, and works great with very good sound. We have sent inquiries to Westinghouse Corp but have no replies. If you have any info or can give me any ideas where I can find it, I will be very grateful Thank you very much, Leo Long 908 NE Hood Hillsboro, Or 97124 [9710]

Always looking for WW1 Navy wireless and radio equipment. Radios,parts,detectors,huge and heavy pieces as well. Really need an SE-1074 wavechanger panel to complete a project. Books and paper are always welcome. Thanks, Craig Smith,2845 Greggin Drive, Roanoke,VA 24012--[540]977-5424 or ip500@roanoke.infi.net [S9711]

WANTED: 1955-59 CHEVROLET truck radio and speaker, model 987187. Sam's Photofact no. 19. Gernsback Official Radio Manual Volume 7. Meisner coil catalog giving interchange from Meisner number to manufacturer's part number. Philco cathedral radio cabinets. 3KP4 CRT. Pilot TV-37 cabinet. Manual for Measurements Corporation, Model 502 signal generator. Any jukebox parts, speakers, literature. -- Alvin Heckard, RD1, Box 88, Lewistown, PA 17044.

WANTED: SERIOUS COLLECTOR SEEKS EARLY REGENERATIVE RADIOS MANUFACTURED BY AMRAD, DEFOREST, FIRTH, A. h. GREBE, KENNEDY, ADAMS MORGAN (PARAGON). SETS NEED NOT BE COMPLETE (I'VE ALWAYS LOVED A CHALLENGE!) NEED AN EARLY A. K. TA. DETECTOR/ AMP UNIT (GREEN CAN). ALSO SEEKING UNUSUAL HORNS; SUCH AS: AMPLION AR-39 AND "PATRICIAN, TELEMACO FOLDED HORN, HERALD TYPE B" (THIS IS THE ONE WITH THE DIAMOND SHAPPED BELL.) NEED THE LARGE TUNING KNOB AND VARIOMETER FOR A SODION DR-6. (MANUFACTURED BY CONNECTICUT TELEPHONE AND TELGRAPH) LET'S TALK $$ OR INTERESTING TRADES! CONTACT JOSEPH WOYCHOWSKI, 119 LAURELWOOD DRIVE, NIANTIC, CT 06357. (860) 739-3649, FAX (860) 739-4673. jun 97

Wanted: Crystal radio from the 50's shaped like a small plastic rocket. Any semi-reasonable price paid, depending on condition. E. Douglas Jensen, jensen@realtime-os.com P.O. Box 1089, Sherborn, MA 01770

WANTED!!!..Western-Electric Amplifiers, speakers and tubes...Also looking for early Altec, JBL, Tannoy, Ampex (by Jim Lansing), Quad and other quality loudspeakers. Any "old" Marantz tube-type units also desired. Thank you. Larry Storey 818-418-4400 or email to lawrencedahl@ibm.net

Wanted: VU meters, 600: 600 repeat coils, other parts to build a master console. Joe Roberts, 1306 Fernwood Road, Austin, TX 78722. (512) 467-0130. jun 97

Highest prices paid for 78 rpm record collections, lp, 16" 1920-1940 jazz, blues, country wanted zenith, rca, ak, philco, tombstone, cathederal, zenith robot dial concols, capehart (pre.war) rca radiola phono. combo concols wanted, wanted, zenith 40a concol. will buy one, or entire collection. please state model number & make of any radios. e mail antqedison@aol.com or fax 1-412-257-8926 John Marinacci

WANTED!!!..Western-Electric Amplifiers, speakers and tubes...Also looking for early Altec, JBL, Tannoy, Ampex (by Jim Lansing), Quad and other quality loudspeakers. Any "old" Marantz tube-type units also desired. Thank you. Larry Storey 818-418-4400 or email to lawrencedahl@ibm.net

WANTED -- TUBES, AMPLIFIERS, SPEAKERS, CLASSICAL RECORDS; ALTEC, JBL, ELECTRO-VOICE, JANSEN, TANNOY, ETC. --- Vincent Kim, 21305 Bella Pine Drive, Diamomd Bar, CA 91789. (909) 861-3951 apr 97

Wanted: Echophone- model 17 upright table radio..Vincent Cormier 409-246-4318 E-mail... vincecorm@aol.com [S9711]

WANTED: SPARTON 69, RF section or parts radio. I also need several Cardon 484 and 585 tubes. Phone/ fax (816) 726-3038, Charles Combs, 508 E. Daniel, Albany, MO 64402 apr 97

WANTED: SODION S-13 TUBE. SODION DR-6 PARTS SET, MAGNAVOX M-4 horn drivers, J. C. Woychowski, 119 Laurelwood Dr., Niantic, CT 06357. (860) 739-6579 apr 97

WANTED: ZENITH TransOceanic lid latch, Steve Morton, 905 West First, North Platte, NE 69101. (308) 534-4778. apr 97

PRECISION APPARATUS model ES-550 oscillograph. Working condition but needs tuning and tweeking. Some new tubes, 5" CRT is like new. $25.00 plus shipping (weighs 25-30 lbs) or best offer. Also UNITED ELECTRONICS LABS model E oscilloscope, working condition, 2" crt, open frame construction. $5.00 plus UPS (approx 8 lbs) or buy both ES-550 and model E for the cost of the ES-550 plus shipping for both. Negotiable. Contact Russ Blakeman at Rt. 1 Box 62E Harned, KY 40144 or (502) 756-1749 or by email at rhblake@bbtel.com

WANTED: DIAL GLASS for Philco console 41-265. Has broadcast and 2 to 7 mc., 9 to 12 mc. and shortwave. Knob for Hallicrafters S-38D, James S. Looney, Route 1 Box 54, Grundy, VA 24614. (540) 531-8677. apr 97

WANTED -- TUBES, AMPLIFIERS, SPEAKERS, CLASSICAL RECORDS; ALTEC, JBL, ELECTRO-VOICE, JANSEN, TANNOY, ETC. --- Vincent Kim, 21305 Bella Pine Drive, Diamomd Bar, CA 91789. (909) 861-3951 may 97

WANTED: SPARTON 69, RF section or parts radio. I also need several Cardon 484 and 585 tubes. Phone/ fax (816) 726-3038, Charles Combs, 508 E. Daniel, Albany, MO 64402 apr 97

I came across The Horn Speaker home page while doing a search for the 'Amplion Products Corporation' that was once located in New York City. I searched the site for information on The Recordovox, an aluminum disc recorder/player manufactured in the early 1930's, with no success. Might you or someone you know be familiar with this unit? If so, I am looking specifically for a needle for this unit. Any assistance would be greatly appreciated. Thank you for your time. Dale Williams email: dalew@virginia.edu Television Systems Engineer voice: (804) 924-3860 Clemons Library fax: (804) 924-7468 University of Virginia http://poe.acc.virginia.edu/~rdw3p mar 97

WANTED: SPEAKER FADA, model 60, fits 41--43, 44-47 --- Louis Moore, 688 Dixwell Avenue, New Haven, CT 06511.

WANTED: AMPLIFIERS, Fender, Ampeg, Gibson, Gretsch, etc. State price and condition. Gretsch, etc. State price and condition --- Herman Schnur, Route 3 Box 151, Greenville, NC 27858 (919) 752-2264. may 97

WANTED: AMPLIFIERS, fender, Gibson, Marshall, etc. State price and condition. Herman Schnur, Route 3 Box 151, Greenville, NC 27858 (919) 752-2264.

WANTED: TEN-TEC model 315, RX-10, Mosley CM-1 receiver. State price and condition. -- Herman F. Schnur, 3205 Brick Kiln Road, Greenville, NC 27858. (919) 752-2264.

WANTED: SPEAKER CONE 7 1/2 diameter and approximately 2" high for Atwater Kent radio and one octagon knob, 13/16 diameter rosewood. -- Don Alfonso, 455 Stirrup Ranch Road, Trinidad, TX 75163. (903) 778-2336.

WANTED: SPARTON 69 RF section or parts radio. I also need several Cardon 484 and 585 tubes. Phone/Fax (816) 726-3038, Charles Combs, 508 E. Daniel, Albany, MO 64402.

WANTED: WESTON 431 METER, 0-200 mH KS-6184, aircraft instruments, meter books and catalogs. Chris Cross, Box 94, McConnell, IL 61050

WANTED: INFO ON LIBERTY BELL aerial made by U.M.B. Co. Mpls., MN (photo, description, ad copy, etc.) Need Philco 118, 144, 507L or 506L chassis, speaker and/or escutcheon, any condition but complete. E. H. Scott AW23 power chassis and/or speaker, any condition, -- Dave gonshor, 7121 S. Jellison St., Littleton, CO 80123. (303) 979-9511. email -- david.v.gonshor@den.mmc.com

WANTED: HOME BREW CRYSTAL SETS, detectors, Baldwin C headphones, wholesale source for headphones cords, --- Turke, P. O. Box 2288, Hollywood, FL 33022.

WANTED: SPEAKER AND DIAL FOR KENNEDY MODEL 63, WILL BUY CHASSIS FOR PARTS ALSO UNUSUAL HORN SPEAKERS. HAVE ANSWERING MACHINE, THANKS, RAY SCHOBER, 4503 WEST DRIVE, NORTH LITTLE ROCK, AR 72118. (501) 771-1480. mar 97

Wanted: FELIX the CAT items. Radios, records, books, toys, comics, pinbacks, comic books, etc. If you have anything with Felix on it (for sale or not) please contact me. I am compiling a list of all Felix the Cat memoribilia ever made. D Smith, box 770813, Lakewood, OH, 44107. hz179@cleveland.Freenet.Edu

WANTED: NEED WESTON 431 METER, 0-200 mA KS-6184. I collect meters of any type, and would like to find any books or catalogs showing lots of photos of meters. Also want histories of old meter manufacturers: Jewell, General Electric, Westinghouse, Marion, etc. Looking for books detailing the use of meters in locomotives, large ships, trucks and tractors, milling and mining industries, etc. Also want anything from or about 1940's aircraft: flight instruments, log books, manuals, etc. -- Chris Cross, Box 94, McConnell, IL 61050.

WANTED: ZENITH 8s661, Philco 39-17, United American Bosch 44OT. State condition and price. Herman Schnur, 3205 Brick Kiln Road, Greenville, NC 27858. (919) 752-2264. [9712]

RADIOS WANTED: PHILCO TRANSWORLDS (T-9 and others), Hallicrafters Worldwides, zenith Transoceanics and other transistor or tube multiband portables, -- Phone/fax (916) 726-3038, Charles Combs, 508 Daniel, Albany, MO 64402. [9706]

WANTED: PHILCO model 51-1730 chassis or Philco part #32-4399-4A RF coupling coil. I am also looking for Zenith black dial chassis or parts and 6U5 eye tubes. -- John P. DenHartigh, 5274 Market Street, Kalamazoo, MI 49001, Call (616) 343- 7072 after 6:00 p.m. Fax (616) 342-2744. mar 97

WANTED: AMPLIFIERS, FENDER, AMPEG, GIBSON, GRETSCH, ETC. STATE PRICE AND CONDITION --- Herman Schnur, Route 3 Box 151, Greenville, NC 37858 (919) 752-2264. mar 97

WANTED - "B" battery eliminator 45/90/135 VDC. Prefer Freshman unit or equivalent for Freshman Masterpiece radio. Also, wood speaker grill for same. --- Dick Roznovsky, 216-321-4309 or write -- P. O. Box 480, Richfield, OH 44286

Wanted: CHASSIS for Kennedy VI, Kennedy 281, DeForest F5, and two white tuning dials for a Radiocraft Interpanel. PH.# (303) 979-0331. jun 95

WANTED: OLDER TELEGRAPH ITEMS and oddball electricals, mechanicals and scientifics. --- Jos. Jacobs, 60 Seaview Terrace, Northport, NY 11768. (516) 261-1576. feb 95

WANTED: TUBE HIFI, tube commercial amps. speakers and horns. Altec, Marantz, Jensen, RCA, Dynaco, Heath, EICO, Scott, Fisher, McIntosh, Pultec, JBL, Electrovoice, Craftsman and Tannoy. Some old guitar amps. also Fender, Gibson, Vox, Vallo, Supro, Magnatone, etc. Sonny Goldson, 1413 Magnolia Lane, Midwest City, OK 73110. Call (405) 737-3312.

GREBE

WANTED: GOOD BINOCULAR COILS for a Grebe Syncrophase or parts radio with good coils. --- Charles R. Combs, 508 E. Daniel, Albany, MO 64402. (816) 726-3038.

GRIMES

WANTED: David Grimes radios models: M3XP and 4DL -- Mike Grimes, 3805 Appomattox Circle, Plano, Texas 75023. (214) 867-6373.

HALLICRAFTERS

WANTED: COPY OF SCHEMATIC and original tyupewritten material supplied with the 1936-37 SX-9, Leland smith, 10 Hawthorn Drive, Harrison, AR 72601. may 96

Wanted:Case and Dustcovers for Hallicrafters S27 Ultra High Frequency Receiver.email: dave@flowserver.stem.comvoice: (415) 813-5028 feb 96

INFO WANTED

NEED SERVICE INFORMATION, schematics, etc. for Sony TC-353D tape deck, Billy Stricklin, Route 5, Box 175A, Savannah, TN 38372, (901) 925-7129. jun 97

I am new to this and have been buying and starting to explore and repair battery sets. Can you reccomend someone or some technical article that can tell me what I need to be doing with audio transformers when they are bad. I have replaced a few with transformer cores but have also tried r-c circuits. My r-c circuits hide well within the old transformer but the problem is matching up the correct capacitors. My r-c circuits always cause me to loose volume. what am I doing wrong. Are there replacements available and if so where??? Jonlem1@aol.com [S9711]

I have an old 1925 vintage RCA radio I would like to get restored, but have been unable to find anyone around here who has a clue as to anyone who would be able to do that. Although I noted that there were places way up on the East Coast where such restorations are done. If you can give me any tips about people in East Texas who have that talent, I would be greatly appreciative. Sincerely, Bill Keith Lufkin, TX wekeith@lcc.net [9712]

Subject: Radiola 27 Found a beauty. But, no portable battery pack or "home battery box". Looking for schematics, batteries or pack, AC adaptor. Were all Radiola 27's the same? Heavy wooden case, swivel antenna in front door, quick-access plate to tubes (they don't seem to want to come out of their sockets - is there a trick or is it just old age?), sprung chassis, etc. I know little about radios. Collect antique toy trains and jukeboxes. Do have telephone and telegraph eqmt. (but that's a lot easier to get working). Any help is appreciated. Jerry Wagner 415-563-3367, fax 415-563-3397, e-mail telegraphy@aol.com San Francisco apr 97

I would like to know where I can obtain information about a Splitdorf RV695 and the value today. Any information you can give me would be appreciated. Thank You Johanna Sutton-Email: jsutton@newportnet.com 1070 NE Lakewood Dr. Newport, OR 97365-1915.

Need info : Buckwalter Radio (Supertone Radio Co.) Pyle-Amplex Radio --- Wayne Gilbert, 10751 Routt St., Broomfield Co. 80021, 303-465-0883 Wagil@aol.com Will pay calls, costs.

HEADPHONES

WANTED: OLD HEADPHONES, -- any amount. Phone plugs, parts also -- Please send list or call. -- Dick Mackiewicz, 349 Walnut Trail, Coventry, CT 06238. (203) 742-8552.

KADETTE

WANTED TO BUY: KADETTE RADIO, type jewel, made by International Radio Corporation, model 40 - 41 - 43 - 44 - 47 - 48. Tubes used in set, two 6C6 and onee 12A7, needs not to be working - Call (414) 593-8404 or send the price to: Mike Hill, W3110 Hwy. 18, Helenville, WI 53137

LITERATURE

WANTED - 50's, 60's editions of Popular Electronics and editions of Radio Experimenter and Communications World. --- Vern Snyder, 5 Parkview Drive, Winder, GA 30680-3956 (770) 307-1459. [S9711]

WANTED: EKKO (see Wayne Gilbert's article in The Horn Speaker, May 1997) or Bryant Radio Stamps, albums, advertising, etc. Phone/fax (816) 726-3038. [9706]

WANTED: ORIGINAL MANUAL for Collins 32V-3 xmtr. --- Barney Wooters, W5KSO, 8303 E. Mansfield Avenue, Denver, CO 80237. (303) 770-5314. may 96

WANTED: MODERN MECHANIX, MECHANICS AND HANDICRAFT MAGAZINES -- Ken Ladd, 5240 44th Aves., Mpls., MN 55417 (612) 722-6786. mar 1996

WANTED: Rider Manuals volumne 19 and 21. Herbert Haas, 2846 Marida Ct., Las Vegas, NV 89120. Phone (702) 434-3642, fax (702) 434-4966. feb 96

MICROPHONES

WANTED: RCA MICROPHONES, ANY CONDITION. Jordan Chassan 1317 Ardee Avenue, Nashville, TN 37216. (615) 262-0607 [9710]

MISCELLANEOUS

INTERESTED in used radio and computer equipment. Please call (512) 452-5307. Val Brown. sep 96

MOTOROLA

I am looking for a MOTOROLA prewar radio. Must have wooden cabinet, must have some shortwave. Prefer working condition, but not required. Please send email to br@ix.netcom.com, or call 9547410870. feb 96

NORTHERN ELECTRIC

WANTED: ZENITH TransOceanic lid latch, Steve Morton, 905 West First, North Platte, NE 69101. (308) 534-4778.

PARMER

WANTED: Parmar (Parker-McCrory) 6 volt farm radios, wind chargers, and manuals. K.A.Ladd 5240 44th Ave S Mpls, MN 55417 612-722-6786 kcladd@ix.netcom.com [S9710]

PARTS

Tube tester filament transformer for sale. Chicago Standard Transformer Corp. Part # 1834-3 Warren Weber 3056 High St. Canon City, CO 81212 E Mail hiho@ris.net [S9710]

WANTED: HALLICRAFTERS SX-16 for parts. If you've a non-working unit you want to part with or have parts available, please contact: Charles Combs, 508 E. Daniel, Albany, MO 64402. Phone/fax (816) 726-3038. [9706]

WANTED: GE Model K-50-P Oscillator Coil Assembly (Original stock number for the coil was 6471). Need to fix family "Heirloom." Please answer by e-mail or to to 12 Vermont Place, Bel Air, MD 21014. KA3HMS [S9709]

WANTED: CASE FOR PHILCO model 20, Ray L. Mayeux, 520 Gladstone Blvd., Shreveport, LA 71104. Phone (318) 868-1202.

WANTED: GE Model K-50-P Oscillator Coil Assembly (Original stock number for the coil was 6471). Need to fix family "Heirloom." Please answer by e-mail or to to 12 Vermont Place, Bel Air, MD 21014. KA3HMS

WANTED, EARLY Connecticut panel, has variometer and large black horseshoe magnet behind panel. -- J. C. Woychowski, 81 Ponn Ave., Niantic, CT 06357. (860) 739-3649

SEEKING device to convert Victrola horn to radio speaker, preferably but not necessarily the type that vibrates the needle and does not require removing the sound box; must fit Orthophonic Victrola or Viva-tonal Columbia. Seeking Orthophonic Victrola CREDENZA or Columbia Viva-tonal Model 810; also seek any 1925-34 dance records and dance band charts. Contact: Vincent Fitzpatrick, POB 127, Wales, ND 58281, ftzptrck@utma.com

Looking for distributor who carries Polypropylene high current Capacitors up to 600 vlots and up to 40 MFs. goodo@telenet.net [9712]

WANTED Working speaker for 1931 Philco model 111 Lowboy console radio. Please write to Gerry McCracken, 2700 Wehrly Ave. Kettering, OH 45419 or E.mail me at gerrymcc@erinet.com

Wanted: Knobs and handle for bakelite Fada Model 144 Battery Set (looks very much like Model 790 pictured at http//members.aol.com/djadamson3/fada790.jpg) Larry Massey P.O. 490126 Key Biscayne, FL 33149

WANTED: DIAL SCALE #27-5204 for Philco model 37-89. Will pay your price if in good condition. Thanks. George Greenberg, KD4OBV, 1701 Andros Isle K2, Coconut Creek, FL 33066 (954) 971-9053horn [9712]

WANTED: FOR A HALLICRAFTER SX28: knobs noise limiter, xtal phasing, bfo/avc, ant. trimmer) noise limiter control/ switch: rf section tube access plate and one thumbscrew; the small threaded lever in main tuning lock. Will trade radio related items, such as tubes, etc. or will pay your fair price. --- Willard Smith, 1802 13th Street, Bedford, IN 47421. (812) 275-5760. [9712]

WANTED: A GOOD BASE WITH CLAMP for a Burns- American electric horn speaker. Cash or trades. (816) 726-3038. Phone/fax Charles Combs, 508 E. Daniel, Albany, MO 64402 [9709]

WANTED: base and driver for Atwater Kent Type L horn speaker, base and driver for Atwater Kent Type M horn speaker. Email ***at@flash.net or snail mail Bill Buchsbaum 8638 Leyland Drive San Antonio, TX 78239***

WANTED: WESTINGHOUSE FILAMENT AMMETER, type cay 2601. A-P oard Phantom portable (see September 1997 The Horn speaker cover, Joseph C. Woychowski, 119 Laurelwood Drive, Niantic, CT 06357 Phone (860) 739-3649. [S9710]

I found an old RCA portable model 8BX6 chassis #RC 1040C/B274. I need a schematic, and sourcing for the tubes/speaker. E_mail is acenking@mail.brigadoon.com> postal is P. Shaffer 75 Hawthorne Dr. Cheshire,CT. 06410-3630

WANTED: a good base with clamp for a Burns - American electric horn speaker. Cash or trades. (816) 726-3038, Phone/ Fax, Charles Combs, 508 E. Daniel, Albany, MO 64402. [S9710]

WANTED: Motorola electric phonograoh winder in good condition for (2) VICTOR WINDING CRANKS, one long and one short; IF TRANSFORMER for Philco model 84 -- junker chassis for International (Kadette) model ES-25, model 60 or 85 --- Harold Wright, R. R. 1 Box 239, Chancellor, AL 36316-9749. (334) 347-0393. dec 95

WANTED Working speaker for 1931 Philco model 111 Lowboy console radio. Please write to Gerry McCracken, 2700 Wehrly Ave. Kettering, OH 45419 or E.mail me at gerrymcc@erinet.com

WANTED: CRYSTAL HEADPHONES, varible condensers, variocouplers, detectors, wire, terminals, points. --- Turke, P. O. Box 2288, Hollywood, FL 33022. dec 96

WANTED: For GREBE SYNCROPHASE MU-1, 2 dial escutcheons large diamond, lables --- Steve Morton, 905 West First, North Platte, NE 69101 (308) 534-4778. dec 96

WANTED: A SET OF FOUR WOOD KNOBS FOR AN ATWATER KENT MODEL 206; KENNETH MILLER, 10027 CALVIN STREET, PITTSBURGH, PA 15235. (412) 242-4701.

PHONOGRAPH

I am looking for one-sided 78rpn Enrico Caruso records. Please let me know the title, record number,ondition and price of any you wish to sell L.Jaffe" **affe@earthsat.com** [S9711]

Wanted: Early model Garrard, Collaro, or HMV record changers. Particularly interested in Garrard RC10 changer, 1930's HMV models, RCA, and Webster.Also service manuals, user manuals or magazine references for these models. Any information you can supply would be most appreciated. Jeff Howe, 51 Oxford Road, Wanganui, New Zealand EMail howe@xtra.co.nz [9710]

WANTED- Needed parts or someone willing to work on an Edison model C reproducer. I have the main body and the copper diaphram only. Can anyone help me?? Will trade my parts plus cash for a complete one. Randy [S9711]

I am looking for one-sided 78rpm Caruso records. please provide the record number, condition and price. ljaffe@earthsat.com (L.Jaffe) [9710]

WANTED: RECORD CUTTING STYLI, dead metal crystal cartridges, multi brand service literature books for the 1960-1980 record changers. West-Tech, P. O. Box 1415, Sebring, FL 33871. [9712]

Wanted. Victrola with horn for personal and family enjoyment. Looking for type that plays 78 disks. Will pay shipping and fair cost. Rkruz@aol.com Robert Kruse 714-762-1288

Looking for an school district record player (box type with lid) to play my old 78's and LPs. I am not interested in a component stereo system. Something fairly recent 60's-70's. Any ideas where I might get one? I contacted my local schools and they were no help. Any suggestions would be appreciated. John Dohrmann BlueHuman@aol.com Edmonds, WA (425) 774-6224 [9709]

WANTED - Edison Diamond Disc CABINET, for 'official laboratory model', double mainspring. I acquired the mechanisms without the cabinet. Probably seeking a Chippendale or better cabinet. Please reply to LAWNAN@aol.com or write to Nancy A. Smith, 2121 SW Broadway, Suite 100, Portland, OR 97201

WANTED: Horn for Victor Z (horn for R or E will suffice). Also seeking clips/hinges for schoolhouse Victor top and gold Victor or Edison keys. Dave Baylard, 20 S.Church,Union, Mo.63084; (314) 583-5103; fax(314)583-1877; e-mail-- bribaypc@mail.usmo.com [S9710]

Wanted: Original reproducers for Busy Bee Grand phonograph and Columbia model B "Eagle". Also, any information regarding Deutsche Grammophon machine that resembles the E. Johnson Victor model C. The machine needs reproducer, elbow, crank, and governor gear and/or mating turntable gear. email ssmith@ionet.net or contact Scott Smith P.O. 335, Owasso OK 74055

Wanted: "Tape Recording", or "Tape Recorder" Magazines - published in both US and Europe in the '50's, '60's and early '70's. Also, the edition of "Audio Magazine" from '70's or '80's that included a bound-in audio record sheet with soundbite of first Bing Crosby Radio Show. E-Mail: MiniTape@aol.com, or phone 610-715-1720.

I have a portable cylinder player, it works fine , but I am looking for the "needle works". It has graphophone on the front of it, and RF producer #47389, pat. oct. 18, 1892, march 28, 1905 on the arm where the horn attaches. If you have such works, please contact Kendall Nelson205 teresa dr. rolesville nc 27571 (919) 556-8081 or knelson@intrex.net thanks...

Can anyone give me an estimated value of an Edison Disk Phonograph, Model C-150 purchased in the late 1920's. It is in excellent condition. I would also like to know the estimated value of 160 records; some patented as early as 1898. Michael Stepenaskie@airmail.net [S9711]

Highest prices paid for 78 rpm record collections, lp, 16" 1920-1940 jazz, blues, country wanted zenith, rca, ak, philco, tombstone, cathederal, zenith robot dial concols, capehart (pre.war) rca radiola phono. combo concols wanted, wanted, zenith 40a concol. will buy one , or entire collection. please state model number & make of any radios. e mail antqedison@aol.com or fax 1-412-257-8926 john marinacci

Wanted: The removable lid for Victor Schoolhouse Mod. XXV, Type A. Could also use motorboard and motor for same. Ken Harrington, 9108 Leaning Rock Circle, Austin,Tx 78730. E-Mail KHarrin193 apr 97

Wanted: source of repair for broken windup spring in RCA vv470. R. Morrison. 1597 Maquinna Ave. Comox,B.C. Canada. V9M 3L2. (rmorris@mars.ark.com) apr 96

NEED INFO on IX Victrola, Jim Knapp, (409) 860-0312. jan 96

Wanted: OLD CRANK PHONOGRAPHS. incomplete machines, parts, horns, Nipper items, needle tins and any related items. -- Dave Faehnrich, 8215 Stone Road, Independence, OH 44131. (216) 447-0837. sep 95

PHILCO

Wanted: Philco Radio Model 37-630 Code #121 e-mail : Kevin Lindsay@mail.mei.com phone: 800-558-5120 ex 2445 [9710]

Wanted: Philco model 46-1201 or 47-1201 table model with slide in record player. prefer a restored unit or an original in working order. Any help or leads would be greatly appreciated. Greg Van BeeK 929 Hillcrest St. West Bend, WI 53095 e-mail: tvanbeek@execpc.com jun 97

WANTED: GOOD CABINET OR PARTS SET for 1941 Philco console 42-1012 or 42-1013. These were AM, old FM and phonograph units. -- Charles R. Combs, 508 E. Daniel, Albany, MO 64402. (816) 726-3038. mar 96

QSL CARDS

Wanted -- PRE-1950 U.S. OR FOREIGN QSL cards in good condition. Ship with your price or request my cash offer. -- Marc Madow, 4720 Vineland Avenue, North Hollywood, CA 91602. nov 96

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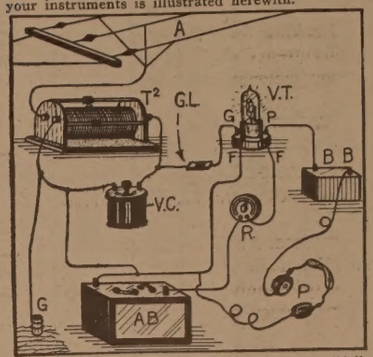
A 2-Slide Tuner and a Vacuum Tube

(6) Martin Lusk, Atlanta, Ga., asks:

Q. 1. Can I use a two-slide tuner to tune with, in connection with an audion detector? I also have fixed and variable condensers.

A. 1. The hook-up which you may use for your instruments is illustrated herewith.



A Two Slide Tuner and Audion Circuit. "A," Aerial, "T2," Two Slide Tuner, "V. C.," Variable Condenser, "G. L.," Grid Leak and Condenser, "BB," 22½ Volt B Battery, "AB," 6 Volt Storage Battery, "R," Rheostat, "V. T.," Vacuum Tube. The Letters Around the Vacuum Tube Socket "G. P. F.," and "F," Represent the Grid, Plate and Filament Designations Found on all Such Sockets.

RCA

I have a Radiola RS with PAT'D 11-7-05 to 5-10-21. Style 358101 "for Amateur, Experimental" tc. It does have 2 WD11 tubes and was "manufactured by Westinghouse Electric & Manufacturing Co for Radio Corporation of America. Is there any printed information on this equipment? Bill Wiseman 909-277-9629. 25999 Glen Eden Rd. Corona, CA 91719. bwiseman@earthlink.net [S9710]

SCOTT

WANTED: I NEED THREE OF THE CHROME circular 3 1/2" transformer covers like used on a Scott All Wave 23 chassis. A parts chassis would be considered. -- Charles R. Combs, 508 E. Daniel, Albany, MO 64402. (816) 726-3038. mar 96

SENCORE

HELP- WANTED -- SENCORE FE14 or FE16 field effect meter, for parts. Phone (210) 464-8034 -- Ken flockhart, Big Valley Tr Park #58, 109 US Bus Hwy 83-W, Donna, TX 78537-2499. jan 97

SONORA

WANTD: DIAL GLASS and front dial cover, or entire cabinet for SONORA model RCU208. Herman Schnur, Route 3 Box 151, Greenville, NC 27858. (919) 752-2264. jun 97

TEN TEC

WANTED: TEN-TEC 315, RX-10 Mosley CM-1 Heath AR-( ) receiver. State price and condition -- Herman Schnur, 3205 Brick Kiln Road, Greenville, NC 27858 (919) 752-2264. [S9711]

TEST EQUIPMENT

Want: SIGNAL GENERATOR for sweep alignment of standard broadcast sets, working or restorable. Call collect (501) 839-5444. -- Joe Vittitow, 1341 Harrodsburg Road, Lawrenceburg, KY 40342. may 96

WANTED HICKOK 209A VACUUM TUBE VOLTMETER OR OTHER HICKOK VTVM CONTACT MIKE PISKUNOFF (216) 777-3498 EMAIL juke-box1@ix.netcom.com apr 96

TUBES

FOR SALE: N.O.S. RCA WX-12 tube with data sheet. $29. plus $4. shipping. E Mail Kevin. tube@staffnet.com or call (540) 657-9538 I buy tubes Wanted tubes include 6550, 7591, 6CA7, EL34, EL37, KT66, KT77, KT88, 12AX7, email for complete list. ethan@olywa.net Ethan Emeson 3138 Overhulse Rd NW, #91 Olympia, WA 98502 I need a 2EP4 pix tube for a Philco. Does anyone have one or perhaps a lead as to where I might find one. E-Mail : Wa4fty@worldnet.att.net My sincere thanks in advance - Wayne Frazier / Wa4fty 235 Arrie Lane, Lexington, S.C. 29073 Phone: 803-359-3917

WANTED: SODION S-13 TUBE. SODION DR-6 PARTS SET, MAGNAVOX M-4 horn drivers, J. C. Woychowski, 119 Laurelwood Dr., Niantic, CT 06357. (860) 739-6579 apr 97

WANTED: GOOD WORKING TRANSMITTING and special purpose tubes such as FP265, FP285, 468, WL469, 805, RF57, HF150, HF125, 822, 203A, 211, UXCV11, 311, 822 equivalent VT4C, 311 and 835. Goldman, 3 Amy Lane, Queensbury, NY 12804. [9712]

WANTED: WARDS SUPER AIRLINE TUBES that check good. Looking for three each of white based AX-201A and gold colored glass GX-201A. -- Charles R. Combs, 508 E. Daniel, Albany, MO 64402. (816) 726-3038. mar 96

WURLITZER

Wanted: parts for a 1956 Wurlitzer model 2000 jukebox. Page turning mechanism, amplifier, right front post glass. Call Don Preston (313) 513-9584. preston@donblackburn.com

ZENITH

NEED chassis for Zenith 12-S-268. Must be able to be restored as long as the band switch and transformer are ok. E-MAIL antqedison@aol.com [S9711]

WANTED: ZENITH TransOceanic lid latch, Steve Morton, 905 West First, North Platte, NE 69101. (308) 534-4778. apr 97

Wanted: Zenith Transoceanic Royal 7000 or R-7000. Also looking for a 600 series trans oceanic, preferably in the leather version but all considered. Must be in excellent to mint condition. Please respond to Tom at email t-al@blueridge.net or PO box 236 Lattimore, NC 28089. Thank You.

WANTED: Zenith Zenette cathedral dial escutcheon, dial and knobs. Wilbur Gilroy, PO Box 459, Lake Winola, Pa 18625. (717) 378-2508 or wlbrg@aol.com [S9710]

Wanted: ZENITH TRANSOCEANIC LID LATCH -- Steve Morton, 905 West First North Platte, NE 69101. (308) 534-4778. mar 97

Wanted: Zenith Transoceanic radios models 520/URR, 520A/URR and R-7000. Top prices paid for nice examples. Contact Robert McPherson by e-mail or call (505)-522-3841. nov 96

WANTED: GOOD CABINET for Zenith model 12 battery radio or non-working radio for parts. -- Charles R. Combs, 508 E. Daniel, Albany, MO 64402. (816) 726-3038. mar 96

WANTED TO BUY, A 'MINT', 'nearmint', Zenith Transoceanic Royal D7000Y. This is the one with the tunable weather band. Would also be interested in valved models.73, N8JDG Chris Kaineckaine@one.net feb 96

WANTED: For Zenith model 52 0r 53, complete chassis with "automatic tuner, " ZE-50 60hz. power supply, speaker knobs. Charles A. Days, P. O. Box 80205, S. Dartmouth, MA 02748-0205. (508) 979-3758. dec 95

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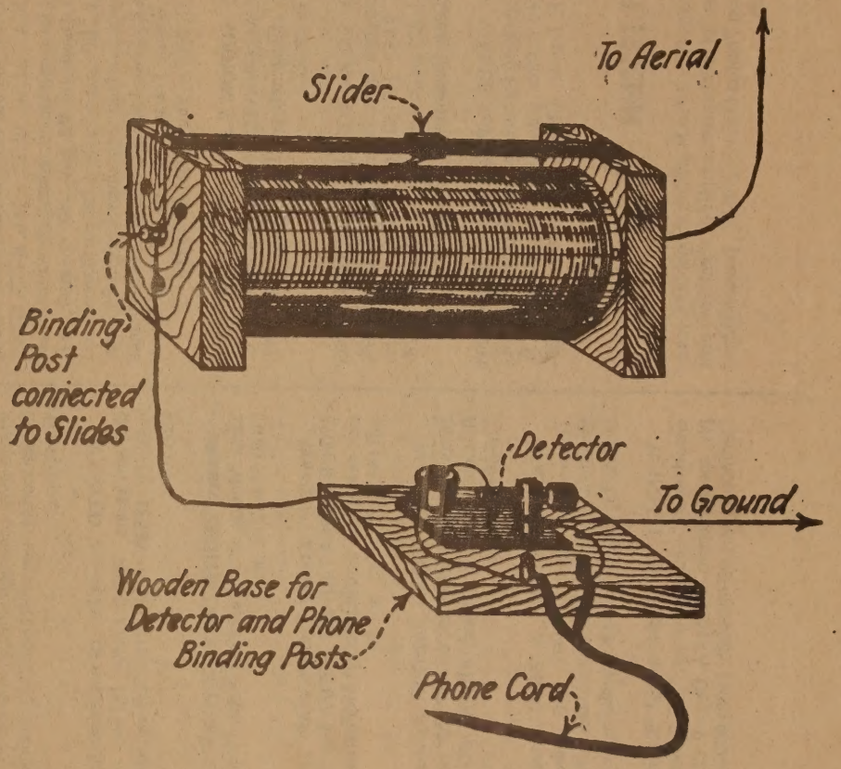
December **1997**



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